

NACOmatic

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INSTRUMENT APPROACH PROCEDURE CHARTS

IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME	ALTERNATE MINIMUMS	NAME	ALTERNATE MINIMUMS
ABERDEEN, SD		BISMARCK, ND	
ABERDEEN RGNL	RNAV (GPS) Rwy 13	BISMARCK MUNI	ILS Rwy 13¹²
	RNAV (GPS) Rwy 31		ILS Rwy 31¹²
	RNAV (GPS) Rwy 35		RADAR-1³
	VOR Rwy 31		¹ ILS, Category D, 800-2½; Category E, 900-3.
	VOR/DME Rwy 13		LOC, NA.
NA when local weather not available.			² NA when control tower not in operation.
			³ NA when control tower closed.
ALBERT LEA, MN		BRAINERD, MN	
ALBERT LEA MUNI	RNAV (GPS) Rwy 16	BRAINERD LAKES RGNL ...	ILS or LOC Rwy 23
NA when local weather not available.			RNAV (GPS) Rwy 12
			RNAV (GPS) Rwy 23
ALEXANDRIA, MN			RNAV (GPS) Rwy 30
CHANDLER FIELD	RNAV (GPS) Rwy 31		RNAV (GPS) Rwy 34
NA when local weather not available.			
			NA when local weather not available.
AUSTIN, MN		BROOKINGS, SD	
AUSTIN MUNI	RNAV (GPS) Rwy 17	BROOKINGS RGNL	RNAV (GPS) Rwy 12
	RNAV (GPS) Rwy 35		RNAV (GPS) Rwy 30
	VOR/DME-A		
NA when local weather not available.			NA when local weather not available.
BAUDETTE, MN		CANBY, MN	
BAUDETTE INTL	RNAV (GPS) Rwy 30¹	MYERS FIELD	RNAV (GPS) Rwy 12
	VOR/DME Rwy 12²		RNAV (GPS) Rwy 30
	VOR Rwy 30²		NA when local weather not available.
¹ NA when local weather not available.		CLOQUET, MN	
² Category C, 800-2½; Category D, 800-2½.		CLOQUET CARLTON	
BEMIDJI, MN		COUNTY	RNAV (GPS) Rwy 35
BEMIDJI RGNL	RNAV (GPS) Rwy 13		NA when local weather not available.
	RNAV (GPS) Rwy 31		
NA when local weather not available.		COOK, MN	
BENSON, MN		COOK MUNI	RNAV (GPS) Rwy 31
BENSON MUNI	RNAV (GPS) Rwy 14		NA when local weather not available.
	RNAV (GPS) Rwy 32	CROOKSTON, MN	
NA when local weather not available.		CROOKSTON MUNI-	
		KIRKWOOD FIELD	RNAV (GPS) Rwy 13¹
			RNAV (GPS) Rwy 31¹
			VOR Rwy 31²
			¹ NA when local weather not available.
			² Category A,B, 900-2; Category C, 900-2½.

NAME ALTERNATE MINIMUMS
DETROIT LAKES, MN
 DETROIT LAKES-
 WETHING FIELD RNAV (GPS) Rwy 13
 RNAV (GPS) Rwy 31
 NA when local weather not available.
 Category D, 800-2¼.

DEVILS LAKE, ND
 DEVILS LAKE RGNL RNAV (GPS) Rwy 3
 RNAV (GPS) Rwy 13
 RNAV (GPS) Rwy 31
 VOR Rwy 3¹
 VOR Rwy 21²
 NA when local weather not available.
 ¹Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¼.
 ²Category C, 800-2¼, Category D, 800-2½.

DICKINSON, ND
 DICKINSON-THEODORE
 ROOSEVELT RGNL RNAV (GPS) Rwy 14
 RNAV (GPS) Rwy 32
 VOR-A
 NA when local weather not available.

DODGE CENTER, MN
 DODGE CENTER RNAV (GPS) Rwy 16
 RNAV (GPS) Rwy 34
 VOR-A
 NA when local weather not available.

DULUTH, MN
 DULUTH INTL COPTER ILS Rwy 9
 COPTER ILS Rwy 27
 ILS Rwy 9
 LOC, NA.

EVELETH, MN
 EVELETH-VIRGINIA
 MUNI VOR/DME or GPS-A
 Category C, 800-2¼; Category D, 800-2½.

FAIRMONT, MN
 FAIRMONT MUNI RNAV (GPS) Rwy 13
 RNAV (GPS) Rwy 31
 VOR Rwy 13
 VOR Rwy 31
 NA when local weather not available.

NAME ALTERNATE MINIMUMS
FARGO, ND
 HECTOR INTL ILS or LOC Rwy 18¹
 ILS or LOC Rwy 36¹
 RNAV (GPS) Rwy 18²
 RNAV (GPS) Rwy 36²
 VOR/DME or TACAN Rwy 18²
 VOR or TACAN Rwy 36³
 ¹ILS, Category E, 700-2¼. LOC, Category E,
 800-2¼.
 ²Category E, 800-2¼.
 ³Category D, 800-2¼, Category E, 800-2¼.

FERGUS FALLS, MN
 FERGUS FALLS MUNI-EINAR
 MICKELSON FIELD ILS or LOC Rwy 31¹
 NDB Rwy 31²
 RNAV (GPS) Rwy 31²
 RNAV (GPS) Rwy 35
 NA when local weather not available.
 ¹ILS, Category D, 700-2¼. LOC, Category D,
 800-2¼.
 ²Category D, 800-2¼.

GLENCOE, MN
 GLENCOE MUNI RNAV (GPS) Rwy 31
 NA when local weather not available.

GRAND FORKS, ND
 GRAND FORKS INTL ... ILS or LOC Rwy 35L¹²
 LOC BC Rwy 17R¹
 RNAV (GPS) Rwy 9L³
 RNAV (GPS) Rwy 17R³
 RNAV (GPS) Rwy 27R³
 RNAV (GPS) Rwy 35L³
 VOR Rwy 17R³
 VOR Rwy 35L³
 ¹NA when control tower closed.
 ²ILS, Category E, 700-2½. LOC, Category E,
 800-2¼.
 ³NA when local weather not available.

GRAND MARAIS, MN
 GRAND MARAIS/
 COOK COUNTY RNAV (GPS) Rwy 27
 NA when local weather not available.

GRAND RAPIDS, MN
 GRAND RAPIDS/ITASCA CO-
 GORDON NEWSTROM RNAV (GPS) Rwy 16
 RNAV (GPS) Rwy 34
 VOR Rwy 34
 NA when local weather not available.

NAME ALTERNATE MINIMUMS

HIBBING, MN

CHISHOLM-

HIBBING ILS OR LOC/DME Rwy 13¹
VOR Rwy 13²

¹ILS, Categories A, B, C, D, 800-2.

²Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2¾; ILS, 700-2.

HURON, SD

HURON RGNL ILS or LOC Rwy 12¹²
LOC/DME BC Rwy 30²³
RNAV (GPS) Rwy 12²³
RNAV (GPS) Rwy 30²³
VOR Rwy 12²³

¹ILS, Category D, 700-2¼. LOC, Category D,
800-2¼.

²NA when local weather not available.

³Category D, 800-2¼.

INTERNATIONAL FALLS, MN

FALLS INTL COPTER ILS or LOC Rwy 31¹
ILS or LOC/DME Rwy 13, 700-2²
ILS or LOC Rwy 31²
RNAV (GPS) Rwy 13²
RNAV (GPS) Rwy 31²
VOR Rwy 13²³
VOR/DME Rwy 31²

¹LOC, NA; ILS, NA when local weather not
available.

²NA when local weather not available.

³Category D, 800-2¼.

JACKSON, MN

JACKSON MUNI RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 31
NDB Rwy 13

NA when local weather not available.

JAMESTOWN, ND

JAMESTOWN RGNL RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 22
RNAV (GPS) Rwy 31
VOR Rwy 31

NA when local weather not available.

MANKATO, MN

MANKATO RGNL RNAV (GPS) Rwy 15
RNAV (GPS) Rwy 33
VOR Rwy 15
VOR Rwy 33

NA when local weather not available.

MAPLE LAKE, MN

MAPLE LAKE MUNI VOR-A
NA when local weather not available.

NAME ALTERNATE MINIMUMS

MARSHALL, MN

SOUTHWEST MINNESOTA RGNL MARSHALL/
RYAN FLD RNAV (GPS) Rwy 12
VOR Rwy 12

NA when local weather not available.

MINNEAPOLIS, MN

ANOKA COUNTY-BLAINE ARPT
(JANES FIELD) ILS or LOC/DME Rwy 27
RNAV (GPS) Rwy 9
RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 27
VOR Rwy 9
VOR/DME Rwy 27

NA when local weather not available.

CRYSTAL RNAV (GPS) Rwy 14L
NA when local weather not available.

FLYING

CLOUD COPTER ILS or LOC Rwy 10R¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R²
VOR Rwy 36³

¹NA when control tower closed.

²NA when local weather not available.

³Category C, 800-2¼; Category D, 800-2½.

MINNEAPOLIS-ST. PAUL INTL/

WOLD CHAMBERLAIN ILS Rwy 4¹
ILS or LOC Rwy 12L¹
ILS or LOC Rwy 12R¹
ILS or LOC Rwy 30L¹
ILS or LOC Rwy 30R¹
ILS or LOC Rwy 35²
LOC Rwy 4³
LOC Rwy 22³
RNAV (GPS) Rwy 4³
RNAV (GPS) Rwy 12L³
RNAV (GPS) Rwy 12R³
RNAV (GPS) Rwy 22³
RNAV (GPS) Rwy 30L³
RNAV (GPS) Rwy 30R³
RNAV (GPS) Z Rwy 35⁴

¹ILS, Category D, 700-2; Category E, 900-3.
LOC, Category E, 900-3.

²ILS, Categories A, B, C, D, 700-2; Category
E, 900-3. LOC, Category E, 900-3.

³Category E, 900-3.

⁴Category D, 800-2¼.

MINOT, ND

MINOT INTL ILS or LOC Rwy 31¹²
LOC/DME BC Rwy 13¹
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 31

NA when local weather not available.

¹NA when tower closed.

NAME **ALTERNATE MINIMUMS**
MITCHELL, SD
MITCHELL MUNI RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 30
VOR Rwy 12
VOR Rwy 30¹

NA when local weather not available.

¹Categories A,B, 1000-2; Categories C,D, 1000-3.

MOBRIDGE, SD
MOBRIDGE MUNI RNAV (GPS) Rwy 12¹
RNAV (GPS) Rwy 30²

NA when local weather not available

¹Category D, 900-2¾.

²Category C, 800-2¼; Category D, 900-2¾.

MORRIS, MN
MORRIS MUNI-CHARLIE
SCHMIDT FLD RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32

NA when local weather not available.

PINE RIDGE, SD
PINE RIDGE RNAV (GPS) Rwy 30
NA when local weather not available.
Categories A,B, 900-2.

PIPESTONE, MN
PIPESTONE MUNI NDB Rwy 36
RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 36

NA when local weather not available.

PRESTON, MN
FILLMORE COUNTY RNAV (GPS) Rwy 29
NA when local weather not available.

RAPID CITY, SD
RAPID CITY RGNL ILS or LOC Rwy 32¹
RNAV (GPS) Rwy 14²
RNAV (GPS) Rwy 32
VOR or TACAN Rwy 14²
VOR or TACAN Rwy 32²

NA when local weather not available.

¹ILS, Category D, 700-2; Category E, 700-2¼.

LOC, Category E, 800-2¼.

²Category E, 800-2¼.

REDWOOD FALLS, MN
REDWOOD FALLS
MUNI RNAV (GPS) Rwy 30
VOR-A

Category D, 800-2¼.

NA when local weather not available.

NAME **ALTERNATE MINIMUMS**
ROCHESTER, MN
ROCHESTER INTL ILS or LOC Rwy 13
ILS or LOC Rwy 31
COPTER ILS or LOC Rwy 31
NA when control tower closed.

ROSEAU, MN
ROSEAU MUNI/
RUDY BILLBERG FIELD ... RNAV (GPS) Rwy 16
RNAV (GPS) Rwy 34
NA when local weather not available.

ST. CLOUD, MN
ST. CLOUD RGNL .. ILS or LOC/DME Rwy 13¹²³
RNAV (GPS) Rwy 5¹
RNAV (GPS) Rwy 13¹
RNAV (GPS) Rwy 23¹
RNAV (GPS) Rwy 31¹
VOR/DME Rwy 13¹²
VOR Rwy 31¹²

¹NA when local weather not available.

²NA when control tower closed.

³ILS, Categories, A, B, C, D, 700-2.

ST. PAUL, MN
ST. PAUL DOWNTOWN HOLMAN
FIELD COPTER ILS or LOC Rwy 32¹
ILS or LOC Rwy 14¹²
ILS or LOC Rwy 32¹²
RNAV (GPS) Rwy 14²
RNAV (GPS) Rwy 32³

NA when control tower closed.

²Categories A,B, 900-2; Category C, 900-2¼;

Category D, 900-2¼.

³Categories A,B,C, 900-2¼; Category D, 900-2¼.

SIoux FALLS, SD
JOE FOSS FIELD ILS Rwy 31²
ILS Rwy 21¹
RADAR-1³
VOR or TACAN Rwy 15⁴
VOR/DME or TACAN Rwy 33³

¹NA when control tower closed.

²LOC, NA.

³Category E, 800-2¼.

⁴Category E, 900-3.

SOUTH ST. PAUL, MN
SOUTH ST. PAUL MUNI-RICHARD E
FLEMING FIELD RNAV (GPS) Rwy 34
Category D, 800-2¼.
NA when local weather not available.

RADAR INSTRUMENT APPROACH MINIMUMS

BISMARCK, ND

Amdt. 3A, DEC 13, 2002 (FAA)

ELEV 1661

BISMARCK MUNI

RADAR - 126.3 298.9



				DA/ HATh/	HAT/ HATH/			DA/ HATh/	HAT/ HATH/	
	RWY	GS/TCH/RPI	CAT	MDA-VIS	HAA	CEIL-VIS	CAT	MDA-VIS	HAA	CEIL-VIS
ASR	13		AB	2100-1	445	(500-1)	C	2100-1¼	445	(500-1¼)
			D	2100-1½	445	(500-1½)				
	31		AB	2100/24	455	(500-½)	C	2100/40	455	(500-¾)
			D	2100/50	455	(500-1)				
	21		AB	2120-1	459	(500-1)	C	2120-1¼	459	(500-1¼)
			D	2120-1½	459	(500-1½)				
	3		AB	2120-1	459	(500-1)	C	2120-1¼	459	(500-1¼)
			D	2120-1½	459	(500-1½)				
CIRCLING			A	2180-1	519	(600-1)	B	2220-1	539	(600-1)
			C	2220-1½	559	(600-1½)	D	2240-2	579	(600-2)

Inoperative table does not apply to MALS Rwy 13.

DULUTH, MN

Amdt. 20, OCT 7, 1999 (FAA)

ELEV 1428

DULUTH INTL

RADAR - 125.45 255.9

				DA/ HATh/	HAT/ HATH/			DA/ HATh/	HAT/ HATH/	
	RWY	GS/TCH/RPI	CAT	MDA-VIS	HAA	CEIL-VIS	CAT	MDA-VIS	HAA	CEIL-VIS
ASR	3		ABC	1820-1	400	(400-1)	D	1820-1¼	400	(400-1¼)
			E	1820-1½	400	(400-1½)				
	27		AB	1860/24	439	(500-½)	C	1860/40	439	(500-¾)
			DE	1860/50	439	(500-1)				
	21		AB	1860-1	440	(500-1)	C	1860-1¼	440	(500-1¼)
			DE	1860-1½	440	(500-1½)				
	9		AB	1880/24	452	(500-½)	C	1880/40	452	(500-¾)
			DE	1880/50	452	(500-1)				
CIRCLING			AB	1920-1	492	(500-1)	C	1920-1½	492	(500-1½)
			DE	1980-2	552	(600-2)				

Category E circling NA southeast of Rwy 3 and 27.

RADAR INSTRUMENT APPROACH MINIMUMS

ELLSWORTH AFB (KRCA) (Rapid City), SD (Amdt 1, 08045 USAF)

ELEV 3276

RADAR - (E) 119.5 259.1¹

				DH/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>			
ASR	13 ²		AB	3820/40	544	(600-¾)
			C	3820/50	544	(600-1)
			D	3820/60	544	(600-1¼)
			E	3820-1½	544	(600-1½)
			AB	3820/40	628	(600-¾)
	31 ²		C	3820/60	628	(600-1¼)
			D	3820-1½	628	(600-1½)
			E	3820-1¾	628	(600-1¾)
CIR	All Rwy ³	A	3860-1¼	584	(600-1¼)	
		B	3880-1¼	604	(700-1¼)	
		C	3880-1¾	604	(700-1¾)	
		D	3880-2	604	(700-2)	
		E	4040-2¾	764	(800-2¾)	

¹Opr 1300-0730Z++ Mon-Thu, 1300-0500Z++ Fri. 1400-0500Z++ Sat, Sun and hol. ²When ALS inop, increase CAT AB RVR to 60 and vis to 1¼, increase CAT CDE vis ½ mile. ³CAT E circling restricted to 28th BW aircraft only; 28th BW aircraft will remain within class D airspace.

MANDAN, ND

Amdt. 4, NOV 09, 1995 (FAA)

ELEV 1942

MANDAN MUNI

RADAR - 126.3 298.9  NA

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
ASR	31		AB	2360-1	418	(500-1)	CD	2360-1¼	418	(500-1¼)
	13		AB	2460-1	520	(600-1)	C	2460-1½	520	(600-1½)
			D	2460-1¾	520	(600-1¾)				
			A	2460-1	518	(600-1)	B	2500-1	558	(600-1)
CIRCLING			C	2500-1½	558	(600-1½)	D	2500-2	558	(600-2)

Use Bismarck altimeter setting.

When Bismarck control tower closed, ASR NA.

RADAR INSTRUMENT APPROACH MINIMUMS

ROCHESTER, MN ROCHESTER INTL

Amdt. 8, JAN 15, 2009 (FAA)

ELEV 1317

RADAR - 119.8 251.125 ▽

	RWY	GS/TCH/RP	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
ASR	2		ABC	1680-1	363	(400-1)	D	1680-1¼	363	(400-1¼)
	13		ABC	1640/24	360	(400-½)	D	1640/50	360	(400-1)
	20		ABC	1660-1	356	(400-1)	D	1660-1¼	356	(400-1¼)
	31		ABC	1660/24	356	(400-½)	D	1660/50	356	(400-1)
CIRCLING			A	1720-1	403	(500-1)	B	1780-1	463	(500-1)
			C	1780-1½	463	(500-1½)	D	1880-2	563	(600-2)

When control tower closed, procedure NA. For inoperative MALSR, increase S-13 and S-31 Cat D visibility to RVR 6000. Visibility reduction by helicopters NA Rwy 2-20.

SIOUX FALLS, SD JOE FOSS FIELD

Amdt. 10A, OCT 3, 2003 (FAA)

ELEV 1429

RADAR - 125.8 353.6 ▽ ▲

	RWY	GS/TCH/RP	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
ASR	3		AB DE	1940/24 1940/60	517 517	(600-½) (600-1¼)	C	1940/50	517	(600-1)
	33		AB D	1920-1 1920-1½	497 497	(500-1) (500-1½)	C E	1920-1¼ 1920-1¼	497 497	(500-1¼) (500-1¼)
	21		AB D	1960/24 1960/60	531 531	(600-½) (600-1¼)	C E	1960/50 1960-1½	531 531	(600-1) (600-1½)
	15		AB D	1960-1 1960-1¾	534 534	(600-1) (600-1¾)	C E	1960-1½ 1960-2	534 534	(600-1½) (600-2)
CIRCLING			AB D	1960-1 2040-2	531 611	(600-1) (700-2)	C E	1960-1½ 2300-3	531 871	(600-1½) (900-3)

When control tower closed, procedure not authorized.

Category E S-3 visibility increased 1¼ mile for inoperative MALSR.

Category E S-21 visibility increased to 2 miles for inoperative MALSR.



INSTRUMENT APPROACH PROCEDURE CHARTS



IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

ABERDEEN, SD

ABERDEEN RGNL (ABR)

ORIG 09239 (FAA)

NOTE: **Rwy 17**, trees 1138' from DER, 432' right of centerline, 41' AGL/1336' MSL. **Rwy 31**, multiple trees beginning 1391' from DER, 326' left of centerline, up to 65' AGL/1360' MSL.

AITKIN, MN

AITKIN MUNI-STEVE KURTZ FIELD (AIT)

AMDT 2 96172 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 26**, 300-1. **Rwy 16**, 300-1 or std. with a min climb of 400' per NM to 1500.

DEPARTURE PROCEDURE: **Rwys 16, 26**, climb runway heading to 1700 before turning.

ALBERT LEA, MN

ALBERT LEA MUNI (AEL)

ORIG 85241 (FAA)

DEPARTURE PROCEDURE: **Rwys 16, 22**, climb runway heading to 1800 before turning on course.

ALEXANDRIA, MN

CHANDLER FIELD (AXN)

DEPARTURE PROCEDURE: **Rwys 4, 13, 22**, when weather is below 200-1, climb runway heading to 1800 before turning.

NAME TAKE-OFF MINIMUMS

APPLETON, MN

APPLETON MUNI (AQP)

ORIG 94146 (FAA)

DEPARTURE PROCEDURE: **Rwy 4**, climb to 2000 before turning right. **Rwy 31**, climb to 2000 before turning left.

Rwy 13, climb to 2400 before turning right. **Rwy 22**, climb to 2400 before turning left.

AUSTIN, MN

AUSTIN MUNI (AUM)

ORIG 08045 (FAA)

NOTE: **Rwy 17**, Multiple trees beginning 809' from

departure end of runway, 663' right of centerline, up to 61' AGL/1285' MSL. **Rwy 35**, Tree 1380' from departure end of runway, 484' right of centerline, 100' AGL/1314' MSL.

BAUDETTE, MN

BAUDETTE INTL (BDE)

ORIG 01193 (FAA)

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading to 1700 before turning northbound.



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

09295

BELLE FOURCHE, SD

BELLE FOURCHE MUNI (EFC)

AMDT 2 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 18,36**, NA. **Rwy 14**, std. w/min. climb of 240' per NM to 9000 or 1400-3 for climb in visual conditions. **Rwy 32**, std. w/min. climb of 413' per NM to 3900.

DEPARTURE PROCEDURE: **Rwy 14**, for climb in visual conditions: cross Belle Fourche Muni airport at or above 4400 MSL before proceeding on course. **Rwy 32**, climb heading 321° to 3900 before proceeding southbound.

NOTE: **Rwy 14**, trees 651' from departure end of runway, 547' left of centerline, up to 20' AGL/3299' MSL. **Rwy 32**, trees 857' from departure end of runway, 150' left of centerline, up to 20' AGL/3199' MSL. Trees 3880' from departure end of runway, 966' right of centerline, up to 20' AGL/3289' MSL.

BEMIDJI, MN

BEMIDJI RGNL (BJI)

AMDT 3 08213 (FAA)

NOTE: **Rwy 7**, vegetation beginning 859' from departure end of runway, 544' right of centerline, up to 62' AGL/1442' MSL. Vegetation beginning 1404' from departure end of runway, 683' left of centerline, up to 44' AGL/1424' MSL. **Rwy 13**, vehicle on road, 541' from departure end of runway, 525' right of centerline, 15' AGL/1398' MSL. **Rwy 25**, poles beginning 1337' from departure end of runway, 205' right of centerline up to 61' AGL/1445' MSL. Trees beginning 1414' from departure end of runway, 254' left of centerline, up to 57' AGL/1441' MSL. Tree 1406' from departure end of runway, 233' right of centerline, 53' AGL/1437' MSL.

BENSON, MN

BENSON MUNI (BBB)

AMDT 1 09127 (FAA)

NOTE: **Rwy 14**, numerous trees beginning 838' from DER, 246' right of centerline, up to 33' AGL/1087' MSL. Numerous trees beginning 1232' from DER, 64' left of centerline, up to 69' AGL/1108' MSL. Sign 206' from DER, 198' left of centerline, 19' AGL/1044' MSL. Tower 4884' from DER, 274' right of centerline, 126' AGL/1161' MSL. **Rwy 32**, Tree 2380' from DER, 646' left of centerline, 68' AGL/1107' MSL. Multiple fences beginning 13' from DER, 361' left of centerline, up to 8' AGL/1043' MSL.

BIGFORK, MN

BIGFORK MUNI (FOZ)

ORIG 97198 (FAA)

TAKE-OFF MINIMUMS: **Rwy 15**, 400-1 or std. with a min. climb of 250' per NM to 1800.

BISMARCK, ND

BISMARCK MUNI (BIS)

AMDT 7 01137 (FAA)

DEPARTURE PROCEDURE: **Rwys 3, 31**, climb runway heading to 2500 before proceeding on course.

Rwys 13, 21, climb runway heading to 3800 before proceeding south.

BOTTINEAU, ND

BOTTINEAU MUNI (D09)

ORIG 98113 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, 800-1 or std. with a min. climb of 280' per NM to 2500. **Rwy 31**, 900-2 or std. with a min. climb of 360' per NM to 2900. **Rwys 3, 21**, NA.

BRAINERD, MN

BRAINERD LAKES RGNL (BRD)

AMDT 5 07074 (FAA)

NOTE: **Rwy 12**, multiple trees beginning 165' from departure end of runway, 417' left of centerline, up to 78' AGL/1279' MSL. Multiple trees and vehicle on road beginning 304' from departure end of runway, 206' right of centerline, up to 66' AGL/1277' MSL. **Rwy 16**, multiple trees beginning 1830' from departure end of runway, 749' left of centerline, up to 74' AGL/1314' MSL. **Rwy 23**, multiple trees beginning 1495' from departure end of runway, 179' left of centerline, up to 48' AGL/1285' MSL. Tree 2437' from departure end of runway, 716' right of centerline, 50' AGL/1279' MSL. **Rwy 30**, multiple trees beginning 243' from departure end of runway, 131' left of centerline, up to 61' AGL/1287' MSL. Multiple trees 48' from departure end of runway, 328' right of centerline, up to 59' AGL/1329' MSL.

BRITTON, SD

BRITTON MUNI (BTN)

AMDT 2 96060 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, 300-1 or std. with a min. climb of 450' per NM to 1600. **Rwy 19**, 300-1. DEPARTURE PROCEDURE: **Rwy 19**, climb runway heading to 2000 before turning.

BROOKINGS, SD

BROOKINGS RGNL (BKX)

ORIG 09015 (FAA)

NOTE: **Rwy 12**, pole and trees beginning 1041' from departure end of runway, 207' left of centerline, up to 65' AGL/1705' MSL. Building 1277' from departure end of runway, 825' right of centerline, 38' AGL/1618' MSL. **Rwy 17**, vehicle on road 799' from departure end of runway, on centerline, up to 15' AGL/1687' MSL. Trees beginning 906' from departure end of runway, 464' left of centerline, up to 100' AGL/1749' MSL. **Rwy 30**, railroad beginning 547' from departure end of runway, 502' right of centerline, 23' AGL/1626' MSL. Tree 132' from departure end of runway, 433' left of centerline, 20' AGL/1615' MSL. **Rwy 35**, trees 2892' from departure end of runway, 944' right of centerline, up to 100' AGL/1709' MSL.

CANBY, MN

MYERS FIELD (CNB)

ORIG 07186 (FAA)

NOTE: **Rwy 12**, truck on road 183' from departure end of runway, 220' right of centerline, 15' AGL/1204' MSL.

CASSELTON, ND

CASSELTON ROBERT MILLER RGNL (5N8)
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 31**, 400-2½ or std. w/a min. climb of 212' per NM to 1400 or alternatively, with standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1700' prior to departure end of runway.

NOTE: **Rwy 13**, railroad 30' from departure end of runway, 505' right of centerline, 23' AGL/945' MSL. Vehicle on road 449' from departure end of runway, 300' left of centerline, 15' AGL/949' MSL. **Rwy 31**, trees 2251' from departure end of runway, 456' left of centerline, up to 100' AGL/1052' MSL.

CAVALIER, ND

CAVALIER MUNI (2C8)
ORIG 03191 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, 300-1 or std. with a min. climb of 430' per NM to 1200.

NOTE: **Rwy 16**, grain elevator 3731' from departure end of runway, 284' left of centerline, 168' AGL/1060' MSL.

CLOQUET, MN

CLOQUET CARLTON COUNTY (COQ)
AMDT 1 80248 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1 or std. with a min. climb of 400' per NM to 1400.

CROOKSTON, MN

CROOKSTON MUNI-KIRKWOOD FIELD (CKN)
AMDT 2 07298 (FAA)

TAKE-OFF MINIMUMS: **Rwys 6, 17, 24, 35**, NA-turf runways.

NOTE: **Rwy 13**, tree 1998' from departure end of runway, 587' left of centerline, 94' AGL/970' MSL. Pole 1127' from departure end of runway, 662' left of centerline, 46' AGL/926' MSL.

DETROIT LAKES, MN

DETROIT LAKES-WETHING FIELD (DTL)
ORIG 05132 (FAA)

TAKE-OFF MINIMUMS: **Rwys 17, 35**, NA.

NOTE: **Rwy 31**, highway 243' from departure end of runway, 267' right of centerline, 15' AGL/1404' MSL. Railroad 534' from departure end of runway, 298' right of centerline, 23' AGL/1411' MSL.

DEVILS LAKE, ND

DEVILS LAKE RGNL (DVL)
AMDT 1 80318 (FAA)

TAKE-OFF MINIMUMS: **Rwy 31**, 300-1 or std. with a min. climb of 350' per NM to 1600.

DICKINSON, ND

DICKINSON-THEODORE ROOSEVELT RGNL (DIK)

AMDT 1 05244 (FAA)

DEPARTURE PROCEDURE: **Rwy 25**, climb via heading 250° to 3100 before turning left.

NOTE: **Rwy 7**, road 887' from departure end of runway, on rwy centerline, 15' AGL/2631' MSL.

DODGE CENTER, MN

DODGE CENTER (TOB)
ORIG 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, NA-Environmental.
NOTE: **Rwy 16**, trees 3945' from departure end of runway, 1542' left of centerline, 100' AGL/1409' MSL.

DULUTH, MN

DULUTH INTL (DLH)
ORIG 06327 (FAA)

NOTE: **Rwy 3**, multiple trees beginning 21' from departure end of runway, 226' right of centerline, up to 68' AGL/1477' MSL. Multiple trees beginning 246' from departure end of runway, 26' left of centerline, up to 64' AGL/1473' MSL. **Rwy 9**, electrical equipment 207' from departure end of runway, 408' left of centerline, 6' AGL/1425' MSL. **Rwy 21**, tower 3762' from departure end of runway, 410' left of centerline, 92' AGL/1522' MSL. **Rwy 27**, tree 2426' from departure end of runway, 1127' right of centerline, 53' AGL/1522' MSL. Bush and multiple trees beginning 347' from departure end of runway, 484' left of centerline, up to 44' AGL/1533' MSL.

SKY HARBOR (DYT)

ORIG 83174 (FAA)

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1. **Rwy 32**, 1500-2 or std. with a min. climb of 360' per NM to 2300.

DEPARTURE PROCEDURE: **Rwy 14**, northwest departures (260° CW 030°) climb to 2300 via heading 260° or 030° before proceeding on course.

EAGLE BUTTE, SD

CHEYENNE EAGLE BUTTE (84D)
ORIG 96228 (FAA)

TAKE-OFF MINIMUMS: **Rwys 13, 31**, 300-1.

ELY, MN

ELY MUNI (ELO)
AMDT 2 97086 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, 300-1 or std. with a min. climb of 200' per NM to 1600.

DEPARTURE PROCEDURE: **Rwy 30**, northbound departures climb runway heading to 2000 before turning.

EVELETH, MN

EVELETH-VIRGINIA MUNI (EVM)
AMDT 2 94118 (FAA)

TAKE-OFF MINIMUMS: **Rwy 32**, 800-2 or std. with a min. climb to 330' per NM to 2300.

DEPARTURE PROCEDURE: **Rwy 27**, northwest departures (270°-050°) climb runway heading to 2200 before turning.

**FAIRMONT, MN**

FAIRMONT MUNI (FRM)

AMDT 3 09127 (FAA)

NOTE: **Rwy 2**, trees beginning 2466' from DER, 1105' right of centerline, up to 100' AGL/1269' MSL. **Rwy 13**, tree 2340' from DER, 1039' left of centerline, 100' AGL/1269' MSL. **Rwy 20**, trees beginning 1640' from DER, 914' right of centerline, up to 100' AGL/1289' MSL. Trees beginning 913' from DER, 449' left of centerline, up to 100' AGL/1299' MSL. **Rwy 31**, trees beginning 954' from DER, 161' left of centerline, up to 100' AGL/1299' MSL. Trees and road beginning 791' from DER, 339' right of centerline, up to 57' AGL/1226' MSL.

FARGO, ND

HECTOR INTL (FAR)

AMDT 4 04330 (FAA)

TAKE-OFF MINIMUMS: **Rwys 13, 31**, NA.NOTE: **Rwy 9**, multiple light poles 1124' from departure end of runway, 305' left of centerline, 20' AGL/927' MSL.**FERGUS FALLS, MN**

FERGUS FALLS MUNI-EINAR MICKELSON FIELD (FFM)

ORIG 09239 (FAA)

NOTE: **Rwy 13**, trees beginning 2612' from DER, 128' right of centerline, up to 100' AGL/1269' MSL. Trees beginning 2514' from DER, 42' left of centerline, up to 100' AGL/1259' MSL. **Rwy 17**, trees beginning 1100' from DER 663' right of centerline, up to 100' AGL/1269' MSL. Road 222' from DER, 469' right of centerline, 15' AGL/1173' MSL. **Rwy 35**, trees beginning 2156' from DER, 176' right of centerline, up to 100' AGL/1289' MSL.

FOSSTON, MN

FOSSTON MUNI (FSE)

AMDT 1 87351 (FAA)

TAKE-OFF MINIMUMS: **Rwys 14, 32**, IFR takeoff not authorized.DEPARTURE PROCEDURE: **Rwy 16**, climb runway heading to 2000 before turning.**GETTYSBURG, SD**

GETTYSBURG MUNI (0D8)

AMDT 1 07018 (FAA)

NOTE: **Rwy 4**, multiple trees beginning 1011' from departure end of runway, 420' left of centerline, up to 60' AGL/2119' MSL. **Rwy 13**, multiple trees beginning 1897' from departure end of runway, 975' left of centerline, 60' AGL/2119' MSL. **Rwy 22**, multiple trees beginning 679' from departure end of runway, 117' left of centerline, up to 60' AGL/2109' MSL.

GLENCOE, MN

GLENCOE MUNI (GYL)

ORIG 09071 (FAA)

NOTE: **Rwy 13**, trees beginning 349' from DER, 257' right of centerline, up to 100' AGL/1099' MSL. Trees beginning 1211' from DER, 314' left of centerline, up to 100' AGL/1109' MSL. Terrain beginning 53' from DER, 166' left of centerline, up to 998' MSL. Terrain beginning 286' from DER, 435' right of centerline, up to 1001' MSL. **Rwy 31**, trees beginning 501' from DER, 530' right of centerline, up to 100' AGL/1099' MSL. Tree 2577' from DER, 129' left of centerline, 100' AGL/1109' MSL.

GLENWOOD, MN

GLENWOOD MUNI (GHW)

AMDT 2 98337 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 1200-2 or std. with a min. climb of 220' per NM to 2900.**GRAFTON, ND**

HUTSON FIELD (GAF)

ORIG 97086 (FAA)

TAKE-OFF MINIMUMS: **Rwy 35**, 400-2 or std. with a min. climb of 420' per NM to 1300.**GRAND FORKS, ND**

GRAND FORKS INTL (GFK)

AMDT 2 09071 (FAA)

NOTE: **Rwy 9L**, tree 127' from DER, 451' left of centerline, 12' AGL/853' MSL. **Rwy 27R**, bush 38' from DER, 474' right of centerline, 5' AGL/844' MSL. **Rwy 35L**, obstruction light on DME 645' from DER, 198' left of centerline, 21' AGL/860' MSL. **Rwy 35R**, tree 1259' from DER, 521' right of centerline, 41' AGL/880' MSL. Tree 1655' from DER, 271' left of centerline, 45' AGL/884' MSL.

GRANT MARAIS, MN

GRAND MARAIS/COOK COUNTY (CKC)

ORIG 09015 (FAA)

NOTE: **Rwy 9**, trees beginning 58' from departure end of runway, 168' right of centerline up to 54' AGL/1833' MSL. Bushes 112' from departure end of runway, 142' left of centerline, 11' AGL/1805' MSL. Tree 464' from departure end of runway, 75' left of centerline, 14' AGL/1813' MSL. **Rwy 27**, trees beginning 85' from departure end of runway, 187' left of centerline, up to 59' AGL/1858' MSL. Trees beginning 282' from departure end of runway, 115' right of centerline, up to 42' AGL/1861' MSL.

GRAND RAPIDS, MN

GRAND RAPIDS/ITASCA COUNTY-GORDON NEWSTROM FIELD (GPZ)

AMDT 4 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5, 10, 23, 28**, NA-Environmental.

NOTE: **Rwy 16**, tree 1655' from DER, 899' left of centerline, 51' AGL/1410' MSL. Tree 3236' from DER, 1130' right of centerline, 82' AGL/1441' MSL. **Rwy 34**, tree 3416' from DER, 1253' right of centerline, 100' AGL/1399' MSL.

GREGORY, SD

GREGORY MUNI, FLYNN FIELD (9D1)

ORIG 97142 (FAA)

TAKE-OFF MINIMUMS: **Rwy 31**, 400-2 or std. with a min. climb of 210' per NM to 2600.

GWINNER, ND

GWINNER-ROGER MELROE FIELD (GWR)

ORIG 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwys 6, 24**, NA-Environment.

Rwy 34, Std. w/ min. climb of 216' per NM to 2000, or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 34**, for climb in visual conditions, cross Gwinner-Roger Melroe Field at or above 2000, before proceeding on course.

NOTE: **Rwy 16**, terrain beginning 15' from DER, 73' right of centerline, 1257' MSL. **Rwy 34**, road and vehicle 436' from DER, on centerline, 15' AGL/1286' MSL.

HAWLEY, MN

HAWLEY MUNI (04Y)

ORIG 07074 (FAA)

NOTE: **Rwy 34**, road 15' from departure end of runway, 421' left of centerline, 15' AGL/1224' MSL.

HETTINGER, ND

HETTINGER MUNI (HEI)

AMDT 1 98225 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, 300-1 or std. with a min. climb rate of 220' per NM to 3000. **Rwys 17, 35** NA.

HIBBING, MN

CHISHOLM-HIBBING (HIB)

AMDT 6 04218 (FAA)

DEPARTURE PROCEDURE: **Rwy 22**, climb via heading 227° to 2200 before turning right. **Rwy 31**, climb via heading 310° to 2200 before turning left.

NOTE: **Rwy 4**, antenna on pole, 361' from departure end of runway, 409' right of centerline, 1377' MSL. **Rwy 13**, obstacle light on pole, 1184' from departure end of runway, 636' left of centerline. Numerous trees beginning 1291' from departure end of runway, 745' left of centerline up to 1419' MSL. Trees 1497' from departure end of runway, 563' right of centerline, 1388' MSL. **Rwy 22**, multiple trees beginning 368' from departure end of runway, 170' right of centerline, up to 1416' MSL. Multiple trees beginning 413' from departure end of runway, 117' left of centerline, up to 1400' MSL. **Rwy 31**, light standard, 865' from departure end of runway, 595' right of centerline, 1381' MSL.

HILLSBORO, ND

HILLSBORO MUNI (3H4)

ORIG 97198 (FAA)

DEPARTURE PROCEDURE: **Rwys 16, 34**, climb runway heading to 2000 prior to turning westbound.

HINCKLEY, MN

FIELD OF DREAMS (04W)

ORIG 08045 (FAA)

NOTE: **Rwy 6**, Tree 82' from departure end of runway, 480' right of centerline, 100' AGL/1114' MSL. Tree 143' from departure end of runway, 161' left of centerline, 100' AGL/1114' MSL. **Rwy 24**, Tree 48' from departure end of runway, 165' left of centerline, 100' AGL/1124' MSL.

HOT SPRINGS, SD

HOT SPRINGS MUNI (HSR)

ORIG 97142 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. with a min. climb of 360' per NM to 5000. **Rwy 19**, 300-2 or std. with a min. climb of 250' per NM to 5000.

DEPARTURE PROCEDURE: **Rwys 1, 19**, climb runway heading to 5000 before proceeding westbound.

HURON, SD

HURON RGNL (HON)

AMDT 5 09239 (FAA)

NOTE: **Rwy 12**, trees and pole beginning 918' from DER, 525' left of centerline, up to 62' AGL/1341' MSL. Trees beginning 291' from DER, 234' right of centerline, up to 100' AGL/1389' MSL. **Rwy 17**, trees beginning 236' from DER, 307' left of centerline, up to 67' AGL/1346' MSL. Trees beginning 264' from DER, 262' right of centerline, 73' AGL/1352' MSL. **Rwy 30**, trees beginning 3428' from DER, 1378' left of centerline, up to 100' AGL/1394' MSL. **Rwy 35**, trees beginning 60' from DER, 104' left of centerline, up to 49' AGL/1328' MSL. Trees beginning 251' from DER, 97' right of centerline, 52' AGL/1331' MSL.

INTERNATIONAL FALLS, MN

FALLS INTL (INL)

AMDT 3 08101 (FAA)

NOTE: **Rwy 4**, Tree 392' from departure end of runway 311' left of centerline, 51' AGL/1231' MSL. **Rwy 13**, multiple trees beginning 1999' from departure end of runway, 773' left of centerline, up to 63' AGL/1233' MSL. Pole 1091', from departure end of runway, 703' right of centerline, 37' AGL/1207' MSL. Road 1005' from departure end of runway, 766' left of centerline, 15' AGL/1195' MSL. **Rwy 22**, Multiple trees beginning 433' from departure end of runway 273' left of centerline, up to 33' AGL/1213' MSL. Trees 1144' from departure end of runway 136' right of centerline, 28' AGL/1208' MSL. **Rwy 31**, Trees 968' from departure end of runway, 752' left of centerline, 56' AGL/1236' MSL.

JACKSON, MN

JACKSON MUNI (MJQ)

ORIG 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4,22**, NA-TURF.

DEPARTURE PROCEDURE: **Rwy 13**, Climb heading 134° to 1900 before turning right.

NOTES: **Rwy 13**, Trees beginning 1474' from departure end of runway, 556' left of centerline, up to 80' AGL/1539' MSL. Vehicle on road 258' from departure end of runway, 559' from centerline, 15' AGL/1459' MSL. **Rwy 31**, Vehicle on road 465' from departure end of runway, 618' left of centerline, 15' AGL/1446' MSL. Trees beginning 1616' from departure end of runway, 580' right of centerline, up to 80' AGL/1519' MSL. Trees beginning 1110' from departure end of runway, 429' left of centerline, up to 80' AGL/1509' MSL.

JAMESTOWN, ND

JAMESTOWN RGNL (JMS)

AMDT 1 07242 (FAA)

NOTE: **Rwy 22**, antenna and tank beginning 2960' from departure end of runway, 1007' left of centerline, up to 150' AGL/1631' MSL. **Rwy 31**, multiple trees beginning 2129' from departure end of runway 47' right of centerline, up to 60' AGL/1560' MSL.

LITCHFIELD, MN

LITCHFIELD MUNI (LJF)

DEPARTURE PROCEDURE: **Rwys 13, 31**, climb to 1800 on runway heading before proceeding on course.

LITTLE FALLS, MN

LITTLE FALLS/MORRISON COUNTY

CHARLES A. LINDBERGH FIELD (LXL)

AMDT 3 96172 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, 300-1 or std. with a min. climb of 250' per NM to 1500. **Rwy 36**, 600-1½ or std. with a min. climb of 345' per NM to 1700.

DEPARTURE PROCEDURE: **Rwy 31**, climb to 1700 before turning.

LONG PRAIRIE, MN

TODD FIELD (14Y)

ORIG 08157 (FAA)

NOTE: **Rwy 16**, tree 273' from departure end of runway, 310' right of centerline, 100' AGL/1436' MSL. **Rwy 34**, tree 70' from departure end of runway, 100' right of centerline, 100' AGL/1439' MSL. Tree 122' from departure end of runway, 105' left of centerline, 100' AGL/1436' MSL. Tree 18' from departure end of runway, 106' right of centerline, 100' AGL/1433' MSL.

MANKATO, MN

MANKATO RGNL (MKT)

ORIG 09267 (FAA)

NOTE: **Rwy 4**, trees beginning 447' from DER, 408' right of centerline, up to 100' AGL/1078' MSL. Trees beginning 1996' from DER, 17' left of centerline, up to 100' AGL/1084' MSL. **Rwy 15**, trees beginning 1552' from DER, 719' left of centerline, up to 100' AGL/1088' MSL. **Rwy 22**, trees beginning 2370' from DER, 989' right of centerline, up to 100' AGL/1069' MSL. **Rwy 33**, trees beginning 2085' from DER, 780' right of centerline, up to 100' AGL/1077' MSL. Rising terrain 9' from DER, 65' right of centerline, up to 1029' MSL. Terrain beginning 82' from DER, 60' left of centerline, up to 1029' MSL.

MARSHALL, MN

SOUTHWEST MINNESOTA RGNL MARSHALL/

RYAN FIELD (MML)

AMDT 2 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 20**, Std. w/ min. climb of 270' per NM to 2000, or 1000-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 20**, for climb in visual conditions, cross Marshall Airport at or above 2000 MSL before proceeding on course.

NOTE: **Rwy 12**, Pole 706' from departure end of runway, 671' right of centerline, 60' AGL/1212' MSL, pole 1580' from departure end of runway, 732' left of centerline, 70' AGL/1225' MSL, antenna 1496' from departure end of runway, 620' right of centerline, 64' AGL/1219' MSL, pole 1185' from departure end of runway, 540' right of centerline, 55' AGL/1210' MSL, tree 3564' from departure end of runway, 400' right of centerline, 110' AGL/1269' MSL, tree 2135' from departure end of runway, 113' left of centerline, 77' AGL/1232' MSL. **Rwy 30**, Vehicle on road 1' from departure end of runway, 435' left of centerline, 24' AGL/1200' MSL.

MILBANK, SD

MILBANK MUNI (1D1)

ORIG 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 25**, Std. w/ a min. climb of 207' per NM to 1900, or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 25**, For climb in visual conditions cross Milbank Muni airport at or above 1900 before proceeding on course.

NOTE: **Rwy 7**, trees beginning 1207' from departure end of runway, 387' left of centerline, up to 100' AGL/1219' MSL. Vehicle on road 829' from departure end of runway, 373' right of centerline, 15' AGL/1134' MSL. Building 322' from departure end of runway, 582' right of centerline, 25' AGL/1134' MSL. **Rwy 13**, trees beginning 1448' from departure end of runway, 394' right of centerline, up to 100' AGL/1219' MSL. Vehicle on road 218' from departure end of runway, 490' left of centerline, 15' AGL/1134' MSL. Building 78' from departure end of runway, 397' left of centerline, 25' AGL/1134' MSL. **Rwy 25**, tree 3584' from departure end of runway, 477' left of centerline, 100' AGL/1249' MSL.

Rwy 31, tree 2992' from departure end of runway, 715' left of centerline, 100' AGL/1239' MSL.

MILLER, SD

MILLER MUNI (MKA)

ORIG 08269 (FAA)

NOTE: **Rwy 15**, vehicle on road 769' from departure end of runway, 642' right of centerline, 15' AGL/1599' MSL. Snow removal equipment 206' from departure end of runway, 475' right of centerline, 21' AGL/1594' MSL. Tree 3903' from departure end of runway, 998' left of centerline, 100' AGL/1684' MSL. **Rwy 33**, vehicle on road 450' from departure end of runway, 560' left of centerline, 15' AGL/1584' MSL. Tree 762' from departure end of runway, 628' left of centerline, 100' AGL/1669' MSL.

09295

MINNEAPOLIS, MN

ANOKA COUNTY-BLAINE AIRPORT
(JANES FIELD) (ANE)

AMDT 4 07018 (FAA)

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 089° to 2600 before turning right. **Rwy 18**, climb heading 179° to 2600 before turning left. **Rwy 27**, climb heading 269° to 1800 before proceeding southeast bound. **Rwy 36**, climb heading 359° to 1800 before proceeding southeast bound.

NOTE: **Rwy 9**, multiple trees 821' from departure end of runway, 619' right of centerline, up to 51' AGL/961' MSL. Tank 1.1 NM from departure end of runway, 1280' right of centerline, 170' AGL/1082' MSL. **Rwy 27**, multiple trees 559' from departure end of runway, 404' left of centerline, up to 50' AGL/946' MSL. Multiple trees 480' from departure end of runway, 394' right of centerline, up to 26' AGL/922' MSL. **Rwy 36**, multiple trees 191' from departure end of runway, 495' right of centerline, up to 78' AGL/971' MSL. Multiple trees 1458' from departure end of runway, 53' left of centerline, up to 59' AGL/958' MSL.

CRYSTAL (MIC)

AMDT 2 81050 (FAA)

TAKE-OFF MINIMUMS: **Rwys 14L, 14R, 32L, 32R**, 300-1. **Rwys 24L, 24R**, 300-1 or std. with a min. climb of 215' per NM to 1000. **Rwys 6L, 6R**, 300-1 or std. with a min. climb of 285' per NM to 1000.

DEPARTURE PROCEDURE: **Rwys 6L, 6R, 14L, 14R**, eastbound departures (050°-130°) climb runway heading to 2800 before turning.

FLYING CLOUD (FCM)

AMDT 4 08157 (FAA)

NOTE: **Rwy 10L**, multiple antenna's on hangar's beginning 270' from departure end of runway, 330' left of centerline, up to 26' AGL/932' MSL. Tree 682' from departure end of runway, 668' right of centerline, 26' AGL/932' MSL. **Rwy 10R**, multiple obstruction light on poles beginning 287' from departure end of runway, 345' right of centerline, up to 36' AGL/939' MSL. Hangar 150' from departure end of runway, 422' right of centerline, 21' AGL/920' MSL. Antenna on building, 536' from departure end of runway, 263' right of centerline, 14' AGL/913' MSL. **Rwy 18**, multiple trees beginning 338' from departure end of runway, 166' left of centerline, up to 62' AGL/961' MSL. Obstruction light on fence 176' from departure end of runway, 127' left of centerline, 10' AGL/910' MSL. Vehicle and road 198' from departure end of runway, 196' left of centerline, 15' AGL/918' MSL. Floodlight 148' from departure end of runway, 374' right of centerline, 38' AGL/938' MSL. Obstruction light on hangar 282' from departure end of runway, 317' right of centerline, 37' AGL/937' MSL. **Rwy 28R**, Hangar 259' from departure end of runway, 355' right of centerline, 18' AGL/931' MSL. **Rwy 36**, wind vane 923' from departure end of runway, 404' left of centerline, 61' AGL/960' MSL. Vent on building 943' from departure end of runway, 295' left of centerline, 44' AGL/943' MSL. Pole 714' from departure end of runway, 351' left of centerline, 33' AGL/932' MSL. Multiple trees beginning 504' from departure end of runway, 324' right of centerline, up to 67' AGL/966' MSL.

MINNEAPOLIS-ST. PAUL INTL
(WOLD CHAMBERLAIN) (MSP)

AMDT 11 07130 (FAA)

TAKEOFF MINIMUMS: **Rwy 35**, std. with a min. climb of 219' per NM to 2100.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 043° to 2100 before turning left. **Rwy 30L**, climb heading 299° to 2100 before turning right. **Rwy 30R**, climb heading 299° to 2100 before turning right. **Rwy 35**, climb via heading 348° to 2100 before turning left.

NOTE: **Rwy 4**, multiple trees beginning 800' from departure end of runway, 264' left of centerline, up to 75' AGL/921' MSL. Rod on building 2528' from departure end of runway, 1175' left of centerline, 78' AGL/922' MSL. Fence 803' from departure end of runway, 585' left of centerline, 15' AGL/860' MSL. Antenna on OL building 456' from departure end of runway, 319' left of centerline, 13' AGL/850' MSL. Light poles 1932' from departure end of runway, 718' left of centerline, 45' AGL/885' MSL. Stack 4535' from departure end of runway, 481' left of centerline, 139' AGL/949' MSL. **Rwy 12R**, multiple trees beginning 1477' from departure end of runway, 407' left of centerline, up to 86' AGL/851' MSL. Multiple trees beginning 1426' from departure end of runway, 124' right of centerline, up to 111' AGL/847' MSL. Light pole 1408' from departure end of runway, 746' right of centerline, 85' AGL/843' MSL. Radar RFLTR 983' from departure end of runway, 32' left of centerline, 15' AGL/829' MSL. Pipe on building, 826' from departure end of runway, 576' left of centerline, 10' AGL/825' MSL. Obstruction light on localizer 766' from departure end of runway, on centerline, 7' AGL/821' MSL. **Rwy 17**, antenna 1272' from departure end of runway, 562' right of centerline, 57' AGL/891' MSL. Pole 409' from departure end of runway, 530' right of centerline, 29' AGL/866' MSL. WDI on building 2619' from departure end of runway, 881' left of centerline, 97' AGL/918' MSL. Building 2619' from departure end of runway, 859' left of centerline, 84' AGL/905' MSL. Light 1176' from departure end of runway, 291' right of centerline, 11' AGL/875' MSL. Tree 2619' from departure end of runway, on centerline, 79' AGL/900' MSL. **Rwy 22**, tree 2906' from departure end of runway, 833' right of centerline, 94' AGL/934' MSL. Hopper 1717' from departure end of runway, 456' left of centerline, 48' AGL/888' MSL. **Rwy 30L**, multiple trees beginning 1113' from departure end of runway, 701' left of centerline, up to 80' AGL/919' MSL. Tree 1230' from departure end of runway, 633' right of centerline, 30' AGL/877' MSL. Ground 28' from departure end of runway, 490' right of centerline, 0' AGL/844' MSL. **Rwy 30R**, building 1056' from departure end of runway, 198' left of centerline, 13' AGL/853' MSL. Multiple trees beginning 3010' from departure end of runway, 334' left of centerline, up to 94' AGL/940' MSL. Light pole 1849' from departure end of runway, 698' right of centerline, 17' AGL/871' MSL. Fence 1327' from departure end of runway, 667' right of centerline, 8' AGL/857' MSL. Tree 3703' from departure end of runway, 350' right of centerline, 67' AGL/914' MSL. Rod on pole 3143' from departure end of runway, 47' right of centerline, 38' AGL/898' MSL. **Rwy 35**, tree 175' from departure end of runway, 398' right of centerline, 73' AGL/883' MSL. Multiple trees beginning 1989' from departure end of runway, 351' left of centerline, up to 65' AGL/902' MSL. Multiple buildings beginning 5.45 NM from departure end of runway, 1787' left of centerline, up to 811' AGL/1743' MSL.



MINOT, ND

MINOT INTL (MOT)

AMDT 3 06103 (FAA)

TAKE-OFF MINIMUMS: **Rwy 26**, 300-1½ or std. with a min. climb of 219' per NM to 2000.

DEPARTURE PROCEDURE: **Rwy 13**, climb via heading 128° to 2200 before turning right. **Rwy 26**, climb via heading 260° to 2300 before turning left.

NOTE: **Rwy 8**, tree 1801' from departure end of runway, 292' left of centerline, 56' AGL/1714' MSL. Tree 1459' from departure end of runway, 528' left of centerline, 47' AGL/1705' MSL. **Rwy 26**, tree 1750' from departure end of runway, 618' right of centerline, 71' AGL/1786' MSL. Tree 1829' from departure end of runway, 376' left of centerline, 65' AGL/1780' MSL. Light pole 1110' from departure end of runway, 610' left of centerline, 44' AGL/1759' MSL. Tank 1.1 NM from departure end of runway, 1810' right of centerline, 184' AGL/1899' MSL. Tree 1782' from departure end of runway, 273' right of centerline, 49' AGL/1764' MSL. Light pole 1294' from departure end of runway, 452' right of centerline, 29' AGL/1751' MSL. Tree 2019' from departure end of runway, 393' right of centerline, 54' AGL/1769' MSL. Building 1431' from departure end of runway, 301' right of centerline, 38' AGL/1753' MSL. Light pole 1418' from departure end of runway, 23' right of centerline, 36' AGL/1751' MSL.

MITCHELL, SD

MITCHELL MUNI (MHE)

AMDT 1 86240 (FAA)

DEPARTURE PROCEDURE: **Rwys 12, 17**, climb to 1800 before turning.

MOBRIDGE, SD

MOBRIDGE MUNI (MBG)

ORIG 88154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 35**, 300-1.

DEPARTURE PROCEDURE: **Rwys 12, 17, 30, 35**, climb runway heading to 2500 before turning on course.

MONTEVIDEO, MN

MONTEVIDEO-CHIPPEWA COUNTY (MVE)

TAKE-OFF MINIMUMS: **Rwy 21**, 400-1½.

DEPARTURE PROCEDURE: **Rwy 14**, climb runway heading to 1500 before turning.

MOOSE LAKE, MN

MOOSE LAKE CARLTON COUNTY (MZH)

ORIG 94006 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 22**, 300-1.

MORRIS, MN

MORRIS MUNI-CHARLIE SCHMIDT FLD (MOX)

ORIG 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 22**, NA-Environmental.

NOTE: **Rwy 32**, Trees 2888' from departure end of runway, 1125' left of centerline, 100' AGL/1209' MSL.

OAKES, ND

OAKES MUNI (2D5)

ORIG 97142 (FAA)

TAKE-OFF MINIMUMS: **Rwy 30**, 300-1 or std. with a min. climb of 260' per NM to 1700.

OLIVIA, MN

OLIVIA RGNL (OVL)

AMDT 1 86044 (FAA)

TAKE-OFF MINIMUMS: **Rwy 11**, 300-1.

ORR, MN

ORR RGNL (ORB)

AMDT 1 80136 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, 500-2 or std. with a min. climb of 260' per NM to 1900.

ORTONVILLE, MN

ORTONVILLE MUNI-MARTINSON FIELD (VVV)

ORIG 81274 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, 300-1 or std. with a min. climb of 210' per NM to 1300.

OWATONNA, MN

OWATONNA DEGNER RGNL (OWA)

AMDT 2 97030 (FAA)

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading to 1500 before turning on course.

PEMBINA, ND

PEMBINA MUNI (PMB)

ORIG 85325 (FAA)

DEPARTURE PROCEDURE: **Rwy 33**, climb runway heading 3200 before turning left.

PERHAM, MN

PERHAM MUNI (16D)

ORIG 98113 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, 500-2 or std. with a min. climb of 210' per NM to 2000. **Rwy 30**, 400-1 or std. with a min. climb of 270' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading to 2000 before proceeding on course.

Rwy 30, climb runway heading to 1800 before proceeding on course.

PIERRE, SD

PIERRE RGNL (PIR)

AMDT 2 85115 (FAA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1.

PINE RIDGE, SD

PINE RIDGE (IEN)

ORIG 97226 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, 300-1 or std. with a min. climb of 350' per NM to 3600. **Rwy 24**, 300-1 or std. with a min. climb of 220' per NM to 3500. **Rwy 30**, 300-1 or std. with a min. climb of 300' per NM to 3600.



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

09295

PIPESTONE, MN

PIPESTONE MUNI (PQN)

ORIG 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Environmental.

NOTE: **Rwy 18**, Trees beginning 381' from departure end of runway, 854' right of centerline, up to 100' AGL/1859' MSL.

PRESTON, MN

FILLMORE COUNTY (FKA)

ORIG 98113 (FAA)

TAKE-OFF MINIMUMS: **Rwys 11,29**, 300-1.

PRINCETON, MN

PRINCETON MUNI (PNM)

AMDT 1 05132 (FAA)

NOTE: **Rwy 15**, trees 982' from departure end of runway, 335' right of centerline, 50' AGL/1029' MSL. Trees 1449' from departure end of runway, 387' left of centerline, 50' AGL/1029' MSL. **Rwy 33**, barn 1159' from departure end of runway, 780' right of centerline, 50' AGL/1139' MSL, multiple trees, terrain, and road beginning 36' from departure end of runway, 84' right of centerline, up to 50' AGL/1045' MSL.

RAPID CITY, SD

RAPID CITY RGNL (RAP)

AMDT 6 07130 (FAA)

DEPARTURE PROCEDURE: **Rwy 5**, climb on heading between 255° clockwise to 210° from departure end of runway, or min. climb of 240' per NM to 8800 for all other courses. **Rwy 14**, climb on heading between 325° clockwise to 210° from departure end of runway, or min. climb of 245' per NM to 8900 for all other courses. **Rwy 23**, climb on heading between 210° counter clockwise to 055° from departure end of runway, or min. climb of 268' per NM to 8900 for all other courses. **Rwy 32**, climb on heading between 255° clockwise to 140° from departure end of runway, or min. climb of 242' per NM to 8800 for all other courses.

NOTE: **Rwy 5**, fence 133' from departure end of runway, 249' left of centerline, 10' AGL/3215' MSL. **Rwy 23**, hangar 201' from departure end of runway, 299' left of centerline, 24' AGL/3193' MSL. Fence 334' from departure end of runway, 256' right of centerline, 10' AGL/3184' MSL. **Rwy 32**, obstruction light 662' from departure end of runway, 243' left of centerline, 54' AGL/3213' MSL. Fence 1002' from departure end of runway, 751' right of centerline, 10' AGL/3233' MSL. Tower 1.9 NM from departure end of runway, 3503' right of centerline, 152' AGL/3520' MSL.

RAY S. MILLER AAF (KRYM)

CAMP RIPLEY, MN AMDT 2, 09155

TAKE-OFF OBSTACLES: **Rwy 13**, Terrain 1270' MSL, 73' from DER, 8' left and right of centerline. Vehicle 15' AGL/1180' MSL, 765' from DER, 638' left of centerline. **Rwy 31**, Terrain 1273' MSL, 54' from DER, 9' left and right of centerline. Trees 64' AGL/1282' MSL, 798' from DER, 325' left and right of centerline.

RED WING, MN

RED WING RGNL (RGK)

AMDT 1 01137 (FAA)

DEPARTURE PROCEDURE: **Rwy 9**, 700-4 or std. with a min. climb of 270' per NM to 1700.

REDWOOD FALLS, MN

REDWOOD FALLS MUNI (RWF)

ORIG 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,23**, NA-Environmental. NOTE: **Rwy 12**, numerous buildings beginning 388' from DER, 376' right of centerline, up to 13' AGL/1052' MSL. Numerous fences beginning 6' from DER, 329' right of centerline, up to 13' AGL/1052' MSL. Tree 62' from DER, 444' left of centerline, 11' AGL/1040' MSL. **Rwy 30**, multiple trees beginning 865' from DER, 401' right of centerline, up to 100' AGL/1119' MSL. Vehicle on road 128' from DER, 306' right of centerline, 15' AGL/1027' MSL.

ROCHESTER, MN

ROCHESTER INTL (RST)

ORIG 09015 (FAA)

NOTE: **Rwy 2**, road 73' from departure end of runway, 385' right of centerline, 10' AGL/1292' MSL. Tree 4377' from departure end of runway, 1132' right of centerline, 100' AGL/1399' MSL. Road 268' from departure end of runway, 366' right of centerline, 10' AGL/1290' MSL. **Rwy 13**, tree 1498' from departure end of runway, 840' right of centerline, 44' AGL/1348' MSL. **Rwy 20**, pole 259' from departure end of runway, 407' right of centerline, 23' AGL/1338' MSL. Roads beginning 1' from departure end of runway, 231' right of centerline, up to 10' AGL/1327' MSL. **Rwy 31**, tree 4760' from departure end of runway, 1103' left of centerline, 100' AGL/1389' MSL.

ROSEAU, MN

ROSEAU MUNI-RUDY BILLBERG FIELD (ROX)

ORIG 07242 (FAA)

NOTE: **Rwy 16**, building 258' from departure end of runway, 505' right of centerline, 24' AGL/1078' MSL. Tree 1582' from departure end of runway, 337' left of centerline, 47' AGL/1101' MSL. **Rwy 34**, truck on road 41' from departure end of runway, 511' left of centerline, 15' AGL/1069' MSL.

RUSHFORD, MN

RUSHFORD MUNI (55Y)

AMDT 1 96228 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1 or std. with a min. climb of 300' per NM to 1500.

DEPARTURE PROCEDURE: **Rwy 16**, climb runway heading to 1700 before turning eastbound.

ST. CLOUD, MN

ST. CLOUD RGNL (STC)

ORIG 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1¼ or std. w/ min. climb of 201' per NM to 1300 or alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1100' prior to DER.

NOTE: **Rwy 5**, tower 6201' from DER, 1416' left of centerline, 149' AGL/1179' MSL. Multiple trees beginning 17' from DER, 373' right of centerline, up to 59' AGL/1081' MSL. Multiple trees beginning 1752' from DER, 56' left of centerline, up to 80' AGL/1102' MSL. **Rwy 13**, tree 1654' from DER, 884' right of centerline, 61' AGL/1078' MSL. Tree 1265' from DER, 794' left of centerline, 42' AGL/1059' MSL. **Rwy 23**, trees 2109' from DER, 29' right of centerline, up to 61' AGL/1082' MSL. Trees 1725' from DER, 93' left of centerline, up to 55' AGL/1076' MSL. Fence 74' from DER, 216' left of centerline, 2' AGL, 1023' MSL. **Rwy 31**, terrain beginning 29' from DER, 50' right of centerline, up to 1083' MSL. Terrain beginning 107' from DER, 7' left of centerline, up to 1060' MSL.

ST. JAMES, MN

ST. JAMES MUNI (JYG)

ORIG 94342 (FAA)

DEPARTURE PROCEDURE: **Rwy 15**, climb to 1900 before turning eastbound.

ST. PAUL MN

LAKE ELMO (21D)

ORIG 80318 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, 300-1 or std. with a min. climb of 225' per NM to 1100.

ST. PAUL DOWNTOWN HOLMAN FIELD (STP)

AMDT 7 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, std. w/ min. climb of 346' per NM to 1500. **Rwy 13**, std. w/ min. climb of 266' per NM to 1500. **Rwy 14**, std. w/ min. climb of 216' per NM to 1500. **Rwy 27**, std. w/ min. climb of 436' per NM to 1500. **Rwy 31**, NA - obstacles. **Rwy 32**, std. w/ min. climb of 340' per NM to 3000.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 088° to 1500 before proceeding on course. **Rwy 13**, climb heading 125° to 1500 before proceeding on course. **Rwy 14**, climb heading 143° to 1500 before proceeding on course. **Rwy 27**, climb heading 268° to 1700 before proceeding on course. **Rwy 32**, climb heading 323° to 1300 before proceeding on course.

NOTE: **Rwy 9**, multiple trees beginning 1265' from departure end of runway, 167' right of centerline, up to 75' AGL/1055' MSL. Multiple trees beginning 1.1 NM from departure end of runway, 124' left of centerline, up to 100' AGL/1099' MSL. Obstruction light tank 1571' from departure end of runway, 771' right of centerline, 50' AGL/811' MSL. Mobile crane 1163' from departure end of runway, 123' left of centerline, 50' AGL/758' MSL. **Rwy 13**, Obstruction light stack 2695' from departure end of runway, 842' right of centerline, 50' AGL/820' MSL. Tree 1563' from departure end of runway, 25' right of centerline, 61' AGL/748' MSL. Multiple trees beginning 1004' from departure end of runway, 607' left of centerline, 50' AGL/767' MSL. Tower 1,725' from

ST. PAUL DOWNTOWN HOLMAN FIELD

(STP) (CON'T)

departure end of runway, 930' left of centerline, 47' AGL/753' MSL. Vent on building 3029' from departure end of runway, 629' right of centerline, 10' AGL/783' MSL. Multiple bushes beginning 194' from departure end of runway 88' left of centerline, 7' AGL/712' MSL. Stack 1,879' from departure end of runway, 25' left of centerline, 51' AGL/751' MSL. **Rwy 14**, multiple trees beginning 805' from departure end of runway, 2' right of centerline, up to 112' AGL/811' MSL. Multiple trees beginning 1205' from departure end of runway, 64' left of centerline, up to 80' AGL/770' MSL. Poles 2810' from departure end of runway 715' right of centerline, 91' AGL/778' MSL. **Rwy 27**, multiple trees beginning 803' from departure end of runway, 122' left of centerline, up to 100' AGL/994' MSL. Tree 783' from departure end of runway, 105' right of centerline, 25' AGL/725' MSL. Obstruction light antenna 996' from departure end of runway, 304' right of centerline, 67' AGL/767' MSL. Light pole 1328' from departure end of runway, 222' left of centerline, 50' AGL/747' MSL. Building 2049' from departure end of runway, 837' right of centerline, 57' AGL/761' MSL. Flagpole 2333' from departure end of runway, 199' left of centerline, 78' AGL/778' MSL. Stack 1.8 NM from departure end of runway, 635' left of centerline, 569' AGL/1279' MSL.

Rwy 32, road and vehicle 211' from departure end of runway, 482' left of centerline, 17' AGL/717' MSL. Railroad beginning 369' from departure end of runway, 329' left of centerline, up to 23' AGL/727' MSL. Pipe on DME 383' from departure end of runway, 269' right of centerline, 17' AGL/722' MSL. Tree 1152' from departure end of runway, 209' left of centerline, 44' AGL/744' MSL. Tree 1685' from departure end of runway, 277' right of centerline, 75' AGL/770' MSL. Sign 5668' from departure end of runway, 1924' left of centerline, 86' AGL/874' MSL. Trees 5614' from departure end of runway, 1796' right of centerline, 100' AGL/939' MSL. Building 5779' from departure end of runway, 1733' right of centerline, 72' AGL/910' MSL. Pole 1.0 NM from departure end of runway, 1835' right of centerline, 157' AGL/973' MSL. Building 1.1 NM from departure end of runway, 2170' left of centerline, 122' AGL/886' MSL. Multiple buildings beginning 1.1 NM from departure end of runway, 378' left of centerline, up to 142' AGL/918' MSL.

SILVER BAY, MN

SILVER BAY MUNI (BFW)

ORIG 93035 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7, 25**, 300-1.

SIoux FALLS, SD

JOE FOSS FIELD (FSD)

AMDT 7 07242 (FAA)

TAKE-OFF MINIMUMS: **Rwy 15**, 200-1 or std. w/ min. climb of 404' per NM to 1700. **Rwy 33**, 200-1½ or std. w/ min. climb of 343' per NM to 1700.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 030° to 2300 before turning eastbound. **Rwy 9**, climb heading 098° to 2000, then left turn direct FSD VORTAC. **Rwy 15**, climb heading 150° to 2000, then right turn direct FSD VORTAC. **Rwy 21**, climb heading 210° to 2200 before turning eastbound. **Rwy 27**, climb heading 278° to 2100 before turning eastbound. **Rwy 33**, climb heading 330° to 2200 before turning eastbound.

NOTE: **Rwy 9**, antenna 2238' from departure end of runway, 919' right of centerline, 87' AGL/1506' MSL. Pole 1256' from departure end of runway, 23' left of centerline, 43' AGL/1464' MSL. Windsock 331' from departure end of runway, 582' right of centerline, 14' AGL/1433' MSL. **Rwy 15**, antenna 3056' from departure end of runway, 983' left of centerline 117' AGL/1576' MSL. Multiple trees beginning 1211' from departure end of runway, 471' left of centerline, up to 38' AGL/1477' MSL. Tower 3102' from departure end of runway, 972' left of centerline, 61' AGL/1520' MSL. Trees and pole beginning 1746' from departure end of runway, 316' right of centerline, up to 87' AGL/1516' MSL. **Rwy 21**, multiple trees beginning 428' from departure end of runway, 522' right of centerline, up to 75' AGL/1497' MSL. **Rwy 27**, multiple trees beginning 2528' from departure end of runway, 1027' left of centerline, up to 100' AGL/1509' MSL. **Rwy 33**, 2 lighted radio towers 3639' from departure end of runway, 894' left of centerline, 88' AGL/1585' MSL, multiple trees beginning 5370' from departure end of runway, 891' left of centerline, up to 175' AGL/1603' MSL, pole 5724' from departure end of runway, 1701' left of centerline, 45' AGL/1594' MSL.

SPEARFISH, SD

BLACK HILLS-CLYDE ICE FIELD (SPF)

TAKE-OFF MINIMUMS: **Rwys 3, 8, 21, 35**, 700-2 (NA at night.). **Rwy 13**, 900-2 or std. with a min. climb of 300' per NM to 5400. **Rwy 17**, NA. **Rwys 26, 31**, 700-2 or std. with a min. climb of 370' per NM to 4700.

DEPARTURE PROCEDURE: **Rwys 3, 8**, turn left. Climb to 6500, intercept the 046° bearing outbound from SPF NDB. Thence... **Rwy 13**, climb runway heading to 4300, then climbing left turn to 6500 via heading 360° to intercept the 046° bearing outbound from SPF NDB. Thence... **Rwys 21, 35**, turn right. Climb to 6500 intercept the 046° bearing outbound from SPF NDB. Thence... **Rwy 26**, climbing right turn to 6500 via heading 330°, intercept the 297° bearing outbound from SPF NDB. Thence... **Rwy 31**, after take-off, intercept 297° bearing outbound from SPF NDB. Climb to 6500. Thence... THENCE... Continue climb to enroute MEA's before proceeding on course.

STAPLES, MN

STAPLES MUNI (SAZ)

AMDT 2 87211 (FAA)

TAKE-OFF MINIMUMS: **Rwy 14**, 400-2.

STURGIS, SD

STURGIS MUNI (49B)

ORIG 96284 (FAA)

DEPARTURE PROCEDURE: **Rwy 11**, climb runway heading to 6000, then direct RAP VORTAC.

Rwy 29, climb runway heading to 5000, then climbing right turn to 6000 direct RAP VORTAC.

THIEF RIVER FALLS, MN

THIEF RIVER FALLS RGNL (TVF)

ORIG 09071 (FAA)

NOTE: **Rwy 3**, trees beginning 3058' from DER, 678' right of centerline, up to 100' AGL/1229' MSL. **Rwy 13**, trees beginning 565' from DER, 372' left of centerline, up to 100' AGL/1214' MSL. Trees beginning 1337' from DER, 531' right of centerline, up to 100' AGL/1209' MSL. **Rwy 21**, trees beginning 214' from DER, 544' right of centerline, up to 100' AGL/1204' MSL. Trees beginning 2185' from DER, 33' left of centerline, up to 100' AGL/1209' MSL. **Rwy 31**, trees beginning 126' from DER, 410' right of centerline, up to 100' AGL/1214' MSL. Trees beginning 199' from DER, 413' left of centerline, up to 100' AGL/1209' MSL. Trees beginning 1204' from DER, 449' right of centerline, up to 100' AGL/1199' MSL. Trees beginning 1579' from DER, 495' left of centerline, up to 100' AGL/1214' MSL.

TIOGA, ND

TIOGA MUNI (D60)

ORIG 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA- Environmental.

NOTE: **Rwy 12**, vehicle on road 1243' from DER, 78' left of centerline, 15' AGL/2304' MSL. Vehicle on road, tree and pole beginning 618' from DER, 50' right of centerline, up to 100' AGL/2419' MSL. Ground 21' from DER, 481' right of centerline, 2272' MSL. **Rwy 30**, vehicle on road 1' from DER, 144' left of centerline, 15' AGL/2256' MSL.

TOWER, MN

TOWER MUNI (12D)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, NA - Obstacles.

NOTE: **Rwy 26**, tree 2315' from DER, 700' right of centerline, 100' AGL/1479' MSL.

VERMILLION, SD

HAROLD DAVIDSON FIELD (VMR)

AMDT 1 09239 (FAA)

NOTE: **Rwy 12**, road 1' from DER, 200' right of centerline, up to 15' AGL/1156' MSL. Multiple trees beginning 541' from DER, 366' right of centerline, up to 62' AGL/1202' MSL. **Rwy 30**, road 79' from DER 342' left of centerline 15' AGL/1155' MSL. Road 200' from DER, 450' right of centerline, 15' AGL/1160' MSL. Fence 199' from DER, 347' left of centerline, 6' AGL/1150' MSL.

WAHPETON, ND

HARRY STERN (BWP)

ORIG 93259 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 300-1.



WARREN, MN

WARREN MUNI (D37)

ORIG 02108 (FAA)

DEPARTURE PROCEDURE: **Rwy 30**, climb
runway heading to 1400 before turning on course.

WARROAD, MN

WARROAD INTL MEMORIAL (RRT)

ORIG 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 22**, NA-
Environmental.

WASECA, MN

WASECA MUNI (ACQ)

ORIG 09015 (FAA)

NOTE: **Rwy 15**, tree 560' from departure end of
runway, 560' right of centerline, 100' AGL/1239'
MSL. Terrain beginning 172' from departure end of
runway, on centerline, up to 1149' MSL. **Rwy 33**,
tree 5042' from departure end of runway, 1533' right
of centerline, 100' AGL/1259' MSL.

WATERTOWN, SD

WATERTOWN RGNL (ATY)

ORIG 07242 (FAA)

NOTE: **Rwy 12**, tree 2015' from departure end of
runway, 328' right of centerline, 100' AGL/1783'
MSL. **Rwy 30**, trees 2149' from departure end of
runway, 10' right of centerline, 51' AGL/1810' MSL.
Tree 2200' from departure end of runway, 441' left of
centerline, 70' AGL/1810' MSL. Tree 2082' from
departure end of runway, 121' right of centerline, 55'
AGL/1806' MSL.

WATFORD CITY, ND

WATFORD CITY MUNI (S25)

ORIG 98225 (FAA)

TAKE-OFF MINIMUMS: **Rwy 30**, 400-1 or std. with
a min. climb of 340' per NM to 2600. **Rwy 12**, 300-1
or std. with a min climb of 300' per NM to 2600.

WHEATON, MN

WHEATON MUNI (ETH)

AMDT 1 92177 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, 300-1. **Rwys 4**,
22, NA.

WILLISTON, ND

SLOULIN FIELD INTL (ISN)

AMDT 3 00251 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, 300-1 or std. with a
min. climb of 270' per NM to 2300.

DEPARTURE PROCEDURE: **Rwy 20**, climb runway
heading to 2300 before turning westbound.

WILLMAR, MN

WILLMAR MUNI-JOHN L. RICE FIELD

(BDH)

ORIG 06327 (FAA)

NOTE: **Rwy 31**, tree 1338' from departure end of
runway, 740' left of centerline, 67' AGL/1193'
MSL.

WINNER, SD

WINNER RGNL (ICR)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-
Environmental.

WINONA, MN

WINONA MUNI-MAX CONRAD FIELD

(ONA)

AMDT 3 96228 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, 300-1 or std.
with a min. climb of 320' per NM to 800. **Rwy 17**,
600-1 or std. with a min. climb of 500' per NM to
1300. **Rwy 30**, 500-1 or std. with a min. climb of
500' per NM to 1200. **Rwy 35**, 700-1 or std. with
a min. climb of 390' per NM to 1500.

DEPARTURE PROCEDURE: **Rwy 12**, climb to
1900 via ONA R-110 before turning. **Rwys 17**,
30, 35, climb runway heading to 1900 before
turning.

WORTHINGTON, MN

WORTHINGTON MUNI (OTG)

AMDT 2 88154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-1.
DEPARTURE PROCEDURE: **Rwys 11, 17, 29**,
35, when weather is below 800-1 climb runway
heading to 2400 before turning.

YANKTON, SD

CHAN GURNEY MUNI (YKN)

AMDT 2 85003 (FAA)

TAKE-OFF MINIMUMS: **Rwy 31**, 300-1.
DEPARTURE PROCEDURE: **Rwys 1, 13, 19**,
31, climb runway heading to 2400 before
turning.

AIRPORT DIAGRAM

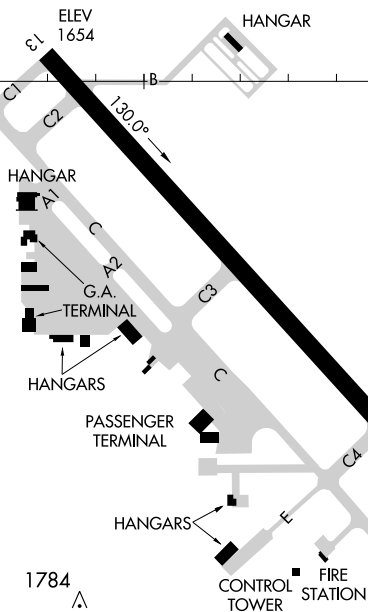
AL-51 (FAA)

 BISMARCK MUNI(BIS)
 BISMARCK, NORTH DAKOTA

 ATIS
 119.35
 BISMARCK TOWER ★
 118.3 257.8
 GND CON
 121.9

D

46° 47' N


 JANUARY 2005
 ANNUAL RATE OF CHANGE
 0.2°W

 FIELD
 ELEV
 1661

1784

8724 X 150

6600 X 100

ELEV
1645
 RWY 3-21
 S130, D180, ST175, DT340
 RWY 13-31
 S130, D180, ST175, SBT405, DT340, TDT840

 CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

100° 45' W

100° 44' W

NC-1, 22 OCT 2009 to 19 NOV 2009

LOC I-BIS	APP CRS	Rwy Idg	8794
110.3	307°	TDZE	1645
		Apt Elev	1661

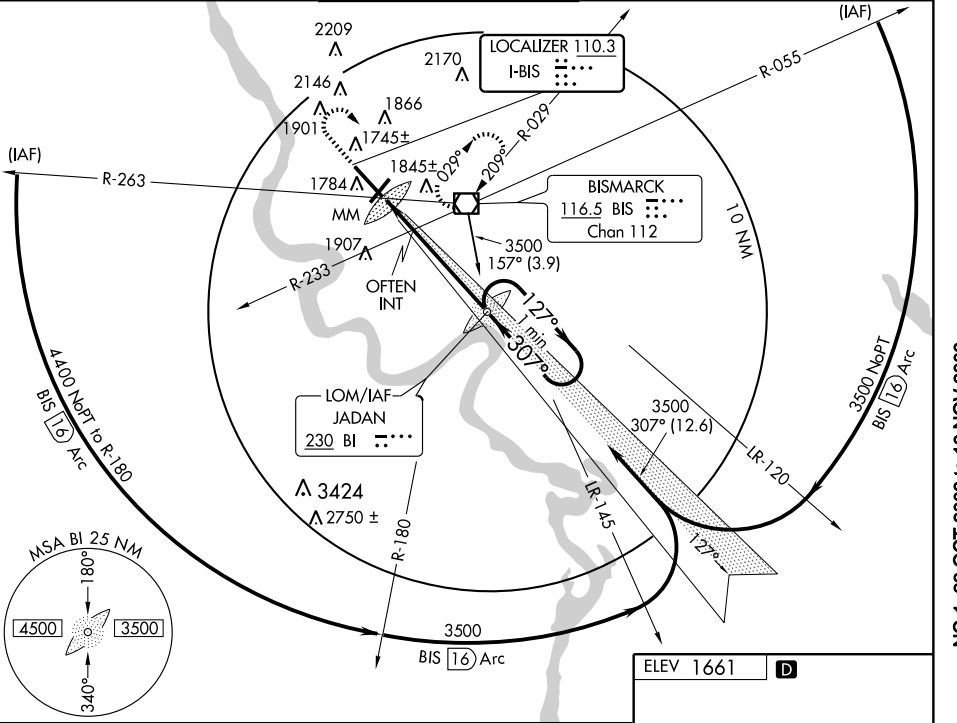
ASR

OFTEN INT Cat D increase visibility to 5000 for inoperative MALS.R.
**RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALS R

MISSED APPROACH: Climb to 2800 then climbing right turn to 3500 direct BIS VOR/DME and hold.

ATIS 119.35	BISMARCK APP CON* 126.3 298.9	BISMARCK TOWER* 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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2800

3500

BIS

116.5

LOM

One Minute Holding Pattern

3480

3500

127°

307°

3500

2160*

307°

127°

3500

GS 3.00°

TCH 48

OFTEN INT

MM

1.1 NM

0.4

4 NM

*LOC only

CATEGORY	A	B	C	D
S-ILS 31	** 1844/24 200 (200-½)			
S-LOC 31	2160/24	515 (500-½)	2160/50 515 (500-1)	2160/60 515 (500-1½)
CIRCLING	2180-1 519 (600-1)	2200-1 539 (600-1)	2220-1½ 559 (600-1½)	2240-2 579 (600-2)
OFTEN INT MINIMUMS				
S-LOC 31	1980/24 335 (400-½)			1980/40 335 (400-¾)

ELEV 1661

D

REIL Rwy 3 and 21

HIRL Rwy 3-21 and 13-31

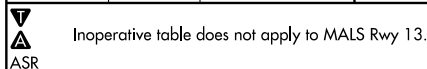
FAF to MAP 5.5 NM

Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

NC-1. 22 OCT 2009 to 19 NOV 2009

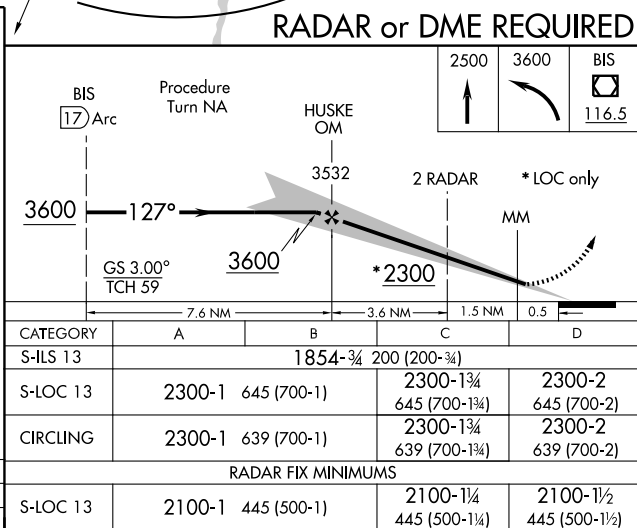
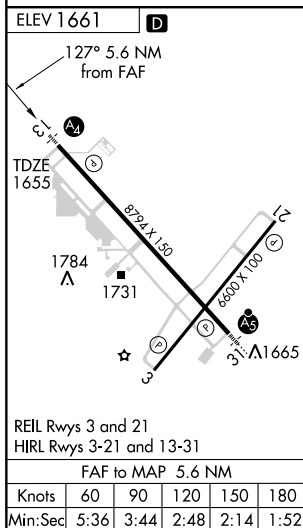
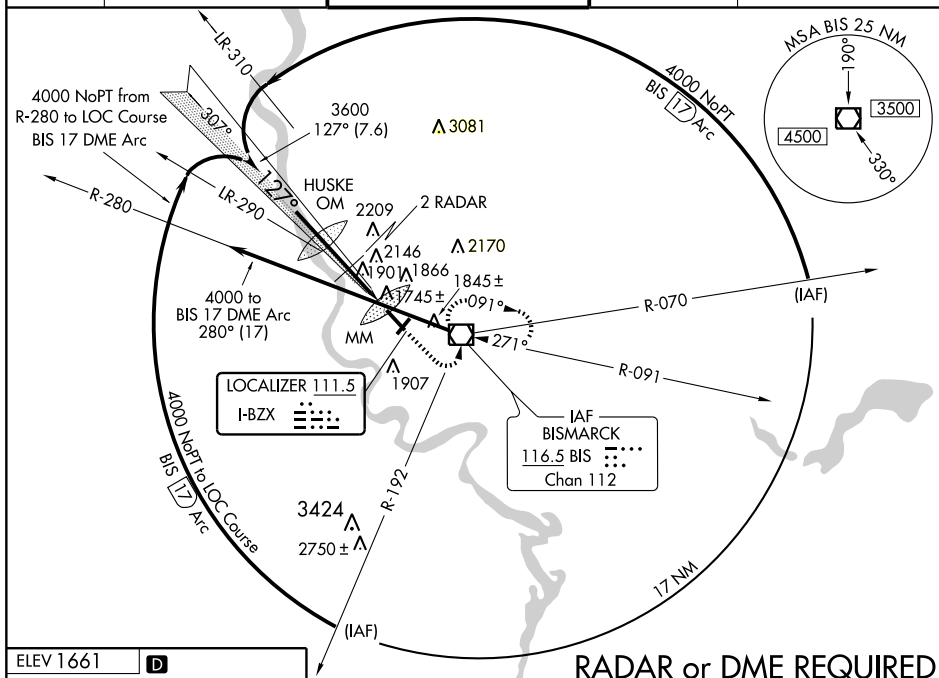
LOC I-BZX <u>111.5</u>	APP CRS 127°	Rwy Idg 8794 TDZE 1655 Apt Elev 1661
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ILS RWY 13
BISMARCK MUNI (BIS)



MISSED APPROACH: Climb to 2500 then climbing left turn to 3600 direct BJS VOR/DME and hold.

ATIS 119.35	BISMARCK APP CON★ 126.3 298.9	BISMARCK TOWER★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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RNAV (GPS) RWY 3

BISMARCK MUNI (BIS)

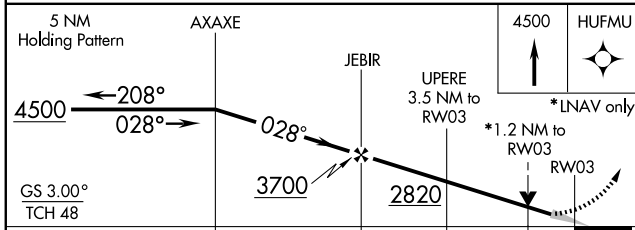
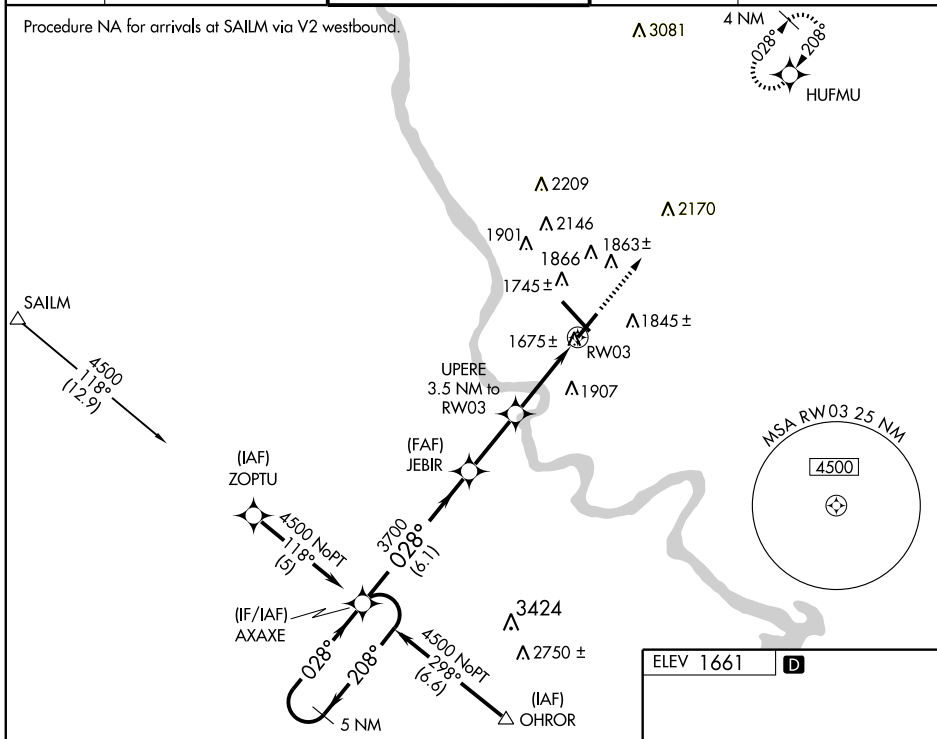
WAAS CH 63099 W03A	APP CRS 028°	Rwy Idg TDZE Apt Elev	6600 1661 1661
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ASR If local altimeter setting not received procedure NA.
Baro-VNAV NA below -18°C (0°F).
DME/DME RNP-0.3 NA.

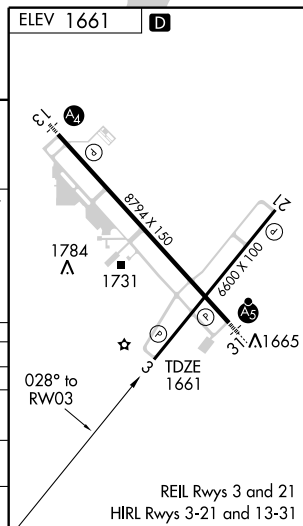
MISSED APPROACH: Climb to 4500 direct HUFMU and hold.

ATIS 119.35	BISMARCK APP CON ★ 126.3 298.9	BISMARCK TOWER ★ 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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Procedure NA for arrivals at SAILM via V2 westbound.



CATEGORY	A	B	C	D
LPV DA	1911-3/4 250 (300-3/4)			
RNAV/ VNAV DA	2264-2 603 (700-2)			
RNAV MDA	2080-1 419 (500-1)		2080-1 419 (500-1 1/4)	
CIRCLING	2240-2 579 (600-2)			2320-2 659 (700-2)



▼

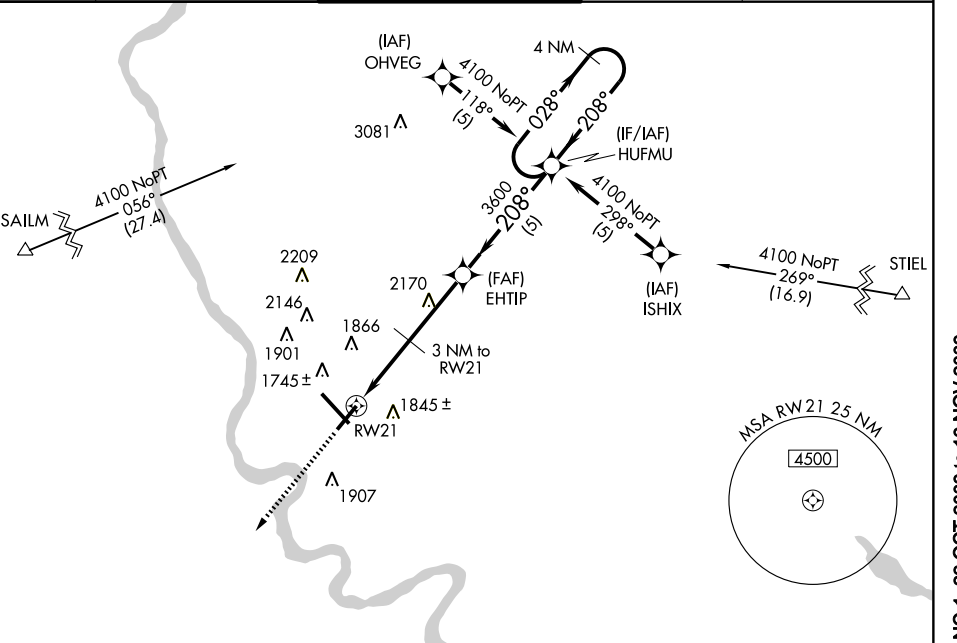
▲NA

ASR

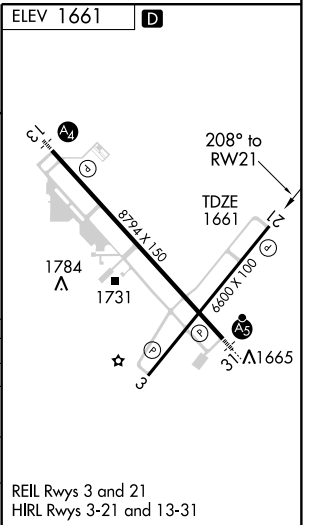
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 4500 direct AXAXE WP and hold.

ATIS 119.35	BISMARCK APP CON★ 126.3 298.9	BISMARCK TOWER★ 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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4500	AXAXE	HUFMU	4 NM Holding Pattern
3 NM to RW21	3 NM to RW21	3 NM to RW21	5 NM
2700	3600	4100	
3.09° TCH 55	208°	208°	
VGSI and descent angles not coincident.			
CATEGORY	A	B	C
GLS	DA	NA	NA
LNAV/VNAV	DA	NA	NA
LNAV MDA	2120-1	459 (500-1)	2120-1½
CIRCLING	2180-1	2200-1	2240-2
	519 (600-1)	539 (600-1)	579 (600-2)



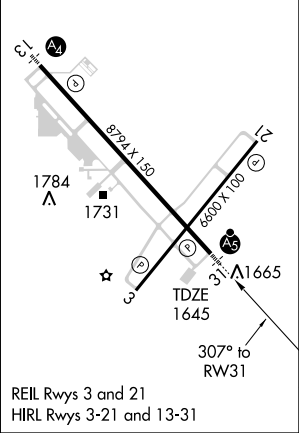
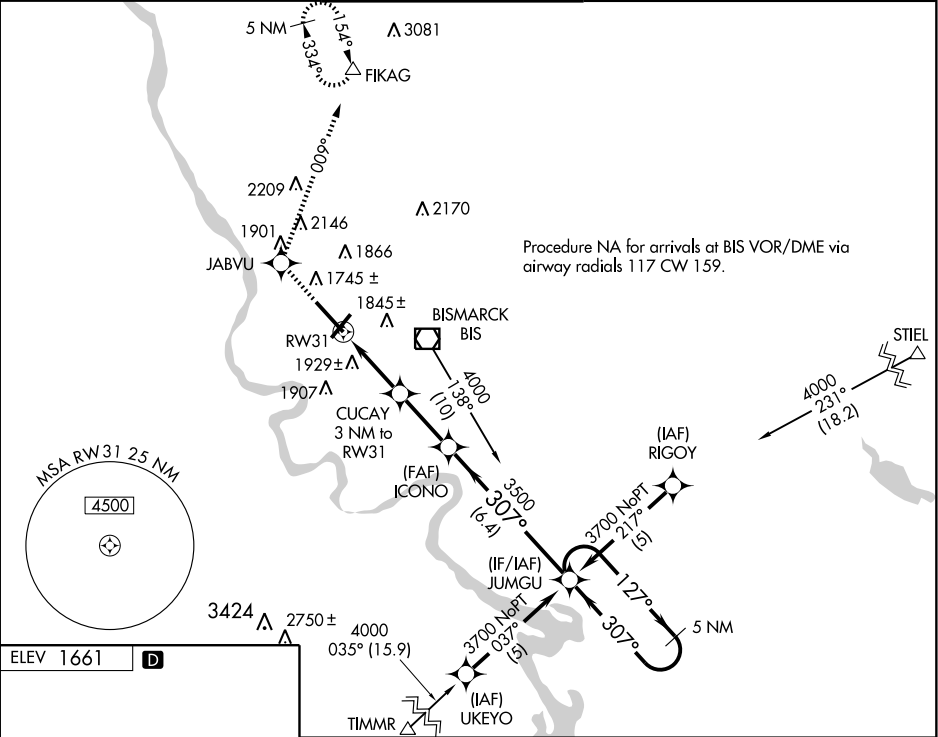
NC-1, 22 OCT 2009 to 19 NOV 2009

WAAS CH 56599 W31A	APP CRS 307°	Rwy Idg TDZE Apt Elev	8794 1645 1661
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RNAV (GPS) RWY 31
BISMARCK MUNI (BIS)

For inoperative MALSR, increase LPV all Cats visibility to 1. ASR Baro-VNAV NA below -18°C (0°F). DME/DME RNP-0.3 NA. If local altimeter setting not received, procedure NA.	MALSR	MISSED APPROACH: Climb to 4100 direct JABVU and via 009° track to FIKAG and hold.
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ATIS 119.35	BISMARCK APP CON★ 126.3 298.9	BISMARCK TOWER★ 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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4100	JABVU	009° Track	FIKAG	ICONO	JUMGU	5 NM Holding Pattern
*LNAV only	CUCAY 3 NM to RW31	*1.5 NM RW31 to RW31	2640*	3500	127°	3700
1.5 NM	1.5 NM	2.6 NM	6.4 NM			
CATEGORY	A	B	C	D		
LPV DA		1909/24	264 (300-1/2)			
LNAV/VNAV DA		2268-1 3/4	623 (700-1 3/4)			
LNAV MDA	2180/24	535 (600-1/2)	2180/50 535 (600-1)	2180/60 535 (600-1 1/4)		
CIRCLING	2280-1	619 (700-1)	2280-1 3/4 619 (700-1 3/4)	2320-2 659 (700-2)		

APP CRS	Rwy Idg	4800
295°	TDZE	2958
	Apt Elev	2958

GPS RWY 29
BOWMAN MUNI (BPP)

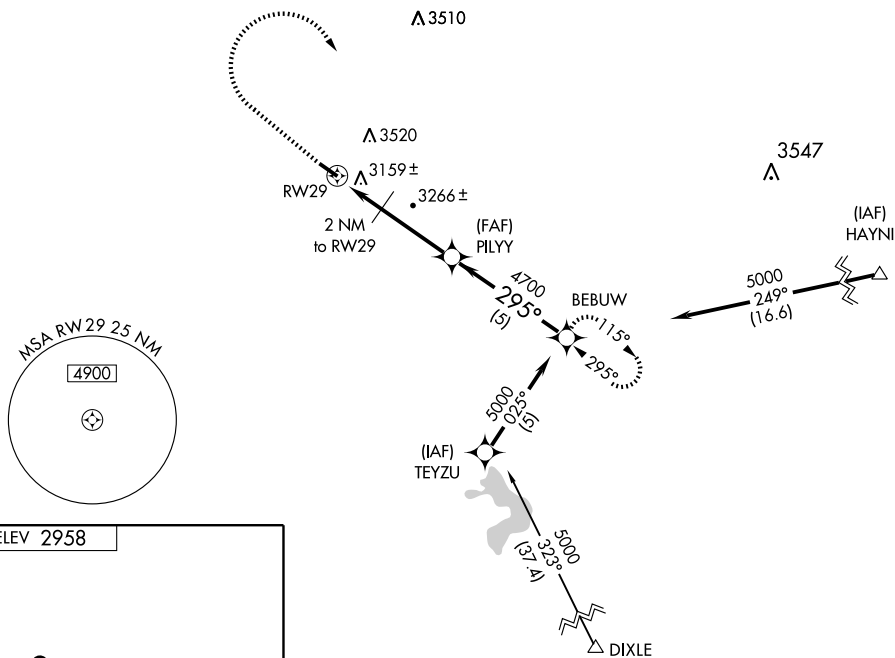
A NA

MISSED APPROACH: Climb to 4000 then climbing right turn to 5000 direct BEBUW WP and hold.

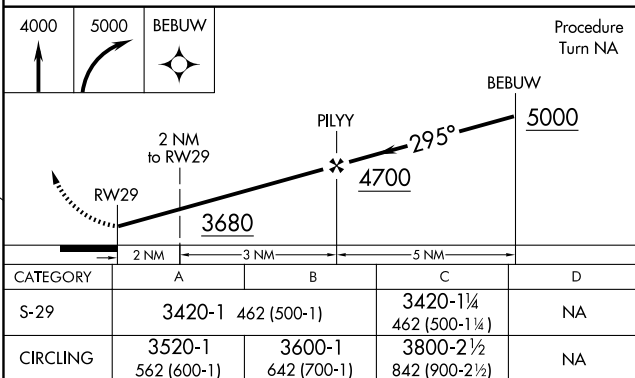
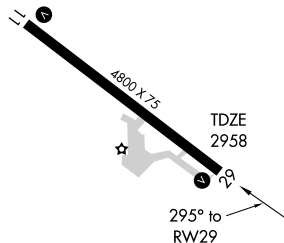
AWOS-3
374

GRAND FORKS RADIO
122.4

UNICOM
122.8 (CTAF) **L**



NC-1. 22 OCT 2009 to 19 NOV 2009

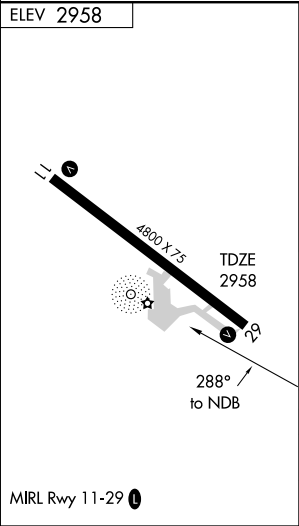
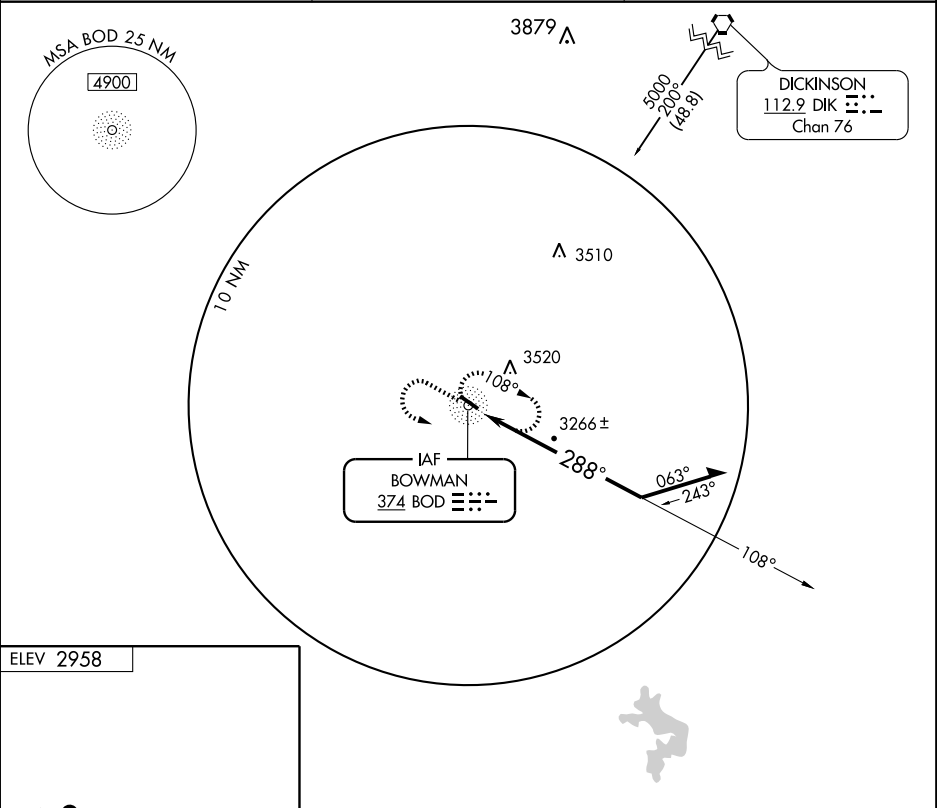


NDB RWY 29
BOWMAN MUNI (BPP)

NDB BOD	APP CRS	Rwy Idg TDZE	4800
374	288°	Apt Elev	2958

NA	MISSED APPROACH: Climb to 4000 then climbing left turn to 4800 direct BOD NDB and hold.
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AWOS-3 374	GRAND FORKS RADIO 122.4	UNICOM 122.8 (CTAF) 0
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<div><div>4000</div><div>4800</div><div>BOD 374</div></div>				
<div><div>NDB</div><div>Remain within 10 NM</div><div>108°</div><div>288°</div><div>4800</div></div>				
CATEGORY	A	B	C	D
S-29	3620-1	662 (700-1)	3620-1 $\frac{3}{4}$ 662 (700-1 $\frac{3}{4}$)	NA
CIRCLING	3620-1	662 (700-1)	3800-2 $\frac{1}{2}$ 842 (900-2 $\frac{1}{2}$)	NA

APP CRS	Rwy Idg	4198
313°	TDZE	1604
	Apt Elev	1606

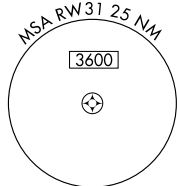
A NA Use Jamestown altimeter setting.
Procedure NA at night.

MISSED APPROACH: Climbing right turn to 3100 direct
IWACU WP and hold.

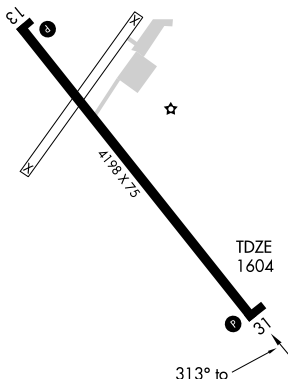
AWOS-3
118.575

MINNEAPOLIS CENTER
124.2 270.3

CTAF
122.9 **L**



ELEV 1606



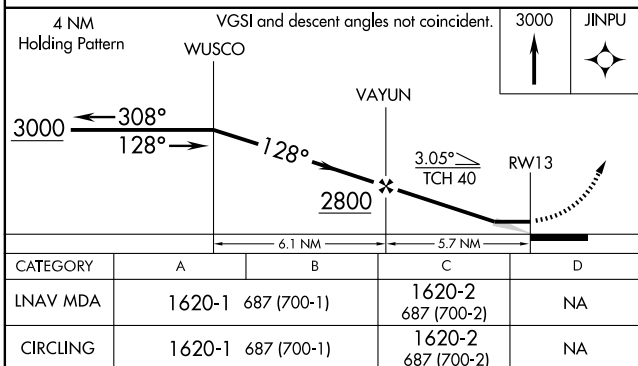
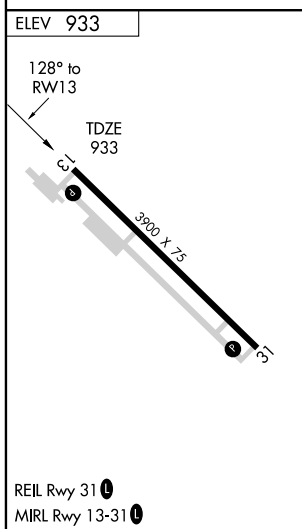
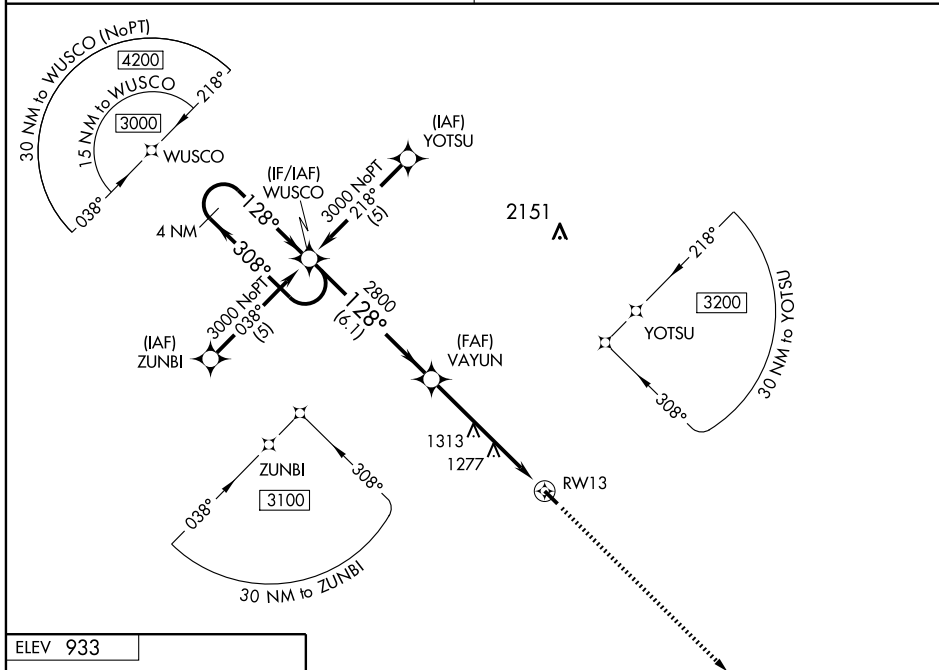
APP CRS	Rwy Idg	3900
128°	TDZE	933
	Apt Elev	933

RNAV (GPS) RWY 13
CASSELTON ROBERT MILLER RGNL (5N8)

T	Use Fargo altimeter setting; when not received use
A NA	Morehead altimeter setting and increase all MDA 20 feet. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000
direct JINPU and hold.

FARGO APP CON ★
120.4 377.15

UN|COM
122.8 (CTAF) **L**

WAAS CH 53607 W31A	APP CRS 308°	Rwy Idg TDZE Apt Elev	3900 933 933
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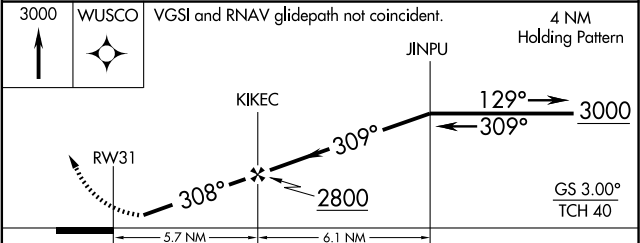
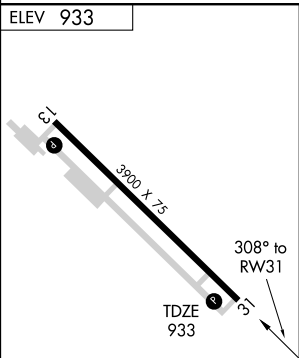
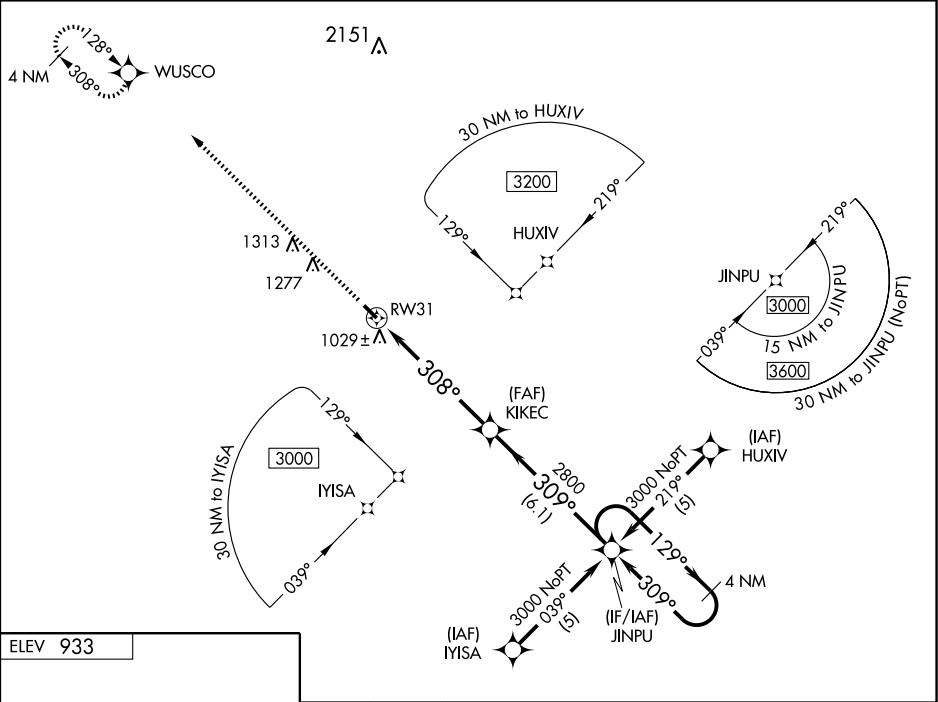
RNAV (GPS) RWY 31
CASSELTON ROBERT MILLER RGNL (5N8)

▼ Use Fargo altimeter setting; when not received, use Morehead altimeter setting and increase all DA 11 feet and all MDA 20 feet, increase LNAV Cat C visibility ¼ mile. Baro-VNAV NA. Visibility reduction by helicopters NA. DME/DME RNP-0.3 NA.

▲ NA

MISSED APPROACH: Climb to 3000 direct WUSCO and hold.

FARGO APP CON ★ 120.4 377.15	UNICOM 122.8 (CTAF) ①
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CATEGORY	A	B	C	D
LPV DA	1226-1 293 (300-1)			NA
LNAV/VNAV DA	1370-1½ 437 (500-1½)			NA
LNAV MDA	1420-1 487 (500-1)	1420-1¼ 487 (500-1¼)		NA
CIRCLING	1420-1 487 (500-1)	1420-1½ 487 (500-1½)		NA

VORTAC FAR <u>116.2</u> Chan 109	APP CRS 283°	Rwy Idg 3900 TDZE 929 Apt Elev 933
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VOR/DME RWY 31
CASSELTON ROBERT MILLER RGNL (5N8)

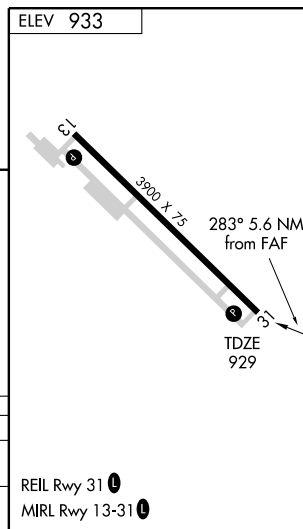
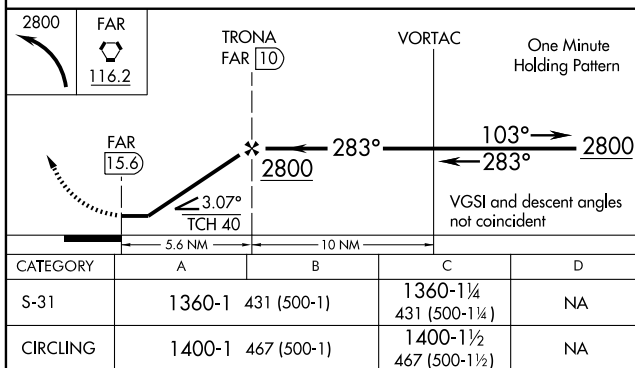
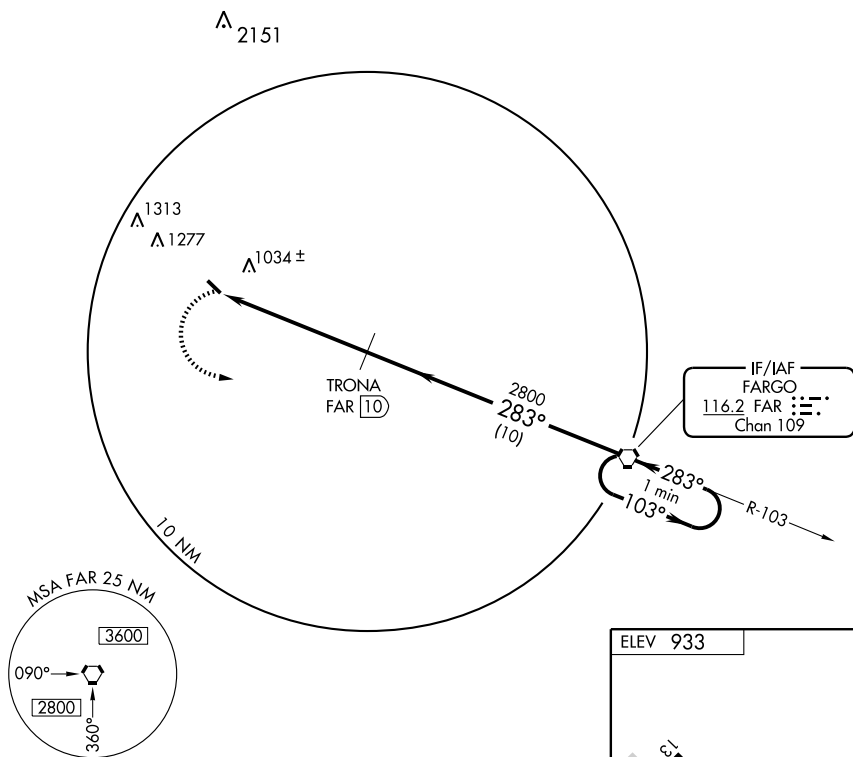
T Use Fargo allimeter setting; if not received, use Morehead
A NA allimeter setting.

MISSED APPROACH: Climbing left turn to 2800 direct FAR VORTAC and hold.

FARGO ASOS
124.5

FARGO APP CON ★
120.4 377.15

UNICOM
122.8 (CTAF) **L**



APP CRS	Rwy Idg	3299
340°	TDZE	892
	Apt Elev	892

RNAV (GPS) RWY 34

CAVALIER MUNI (2C8)

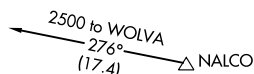
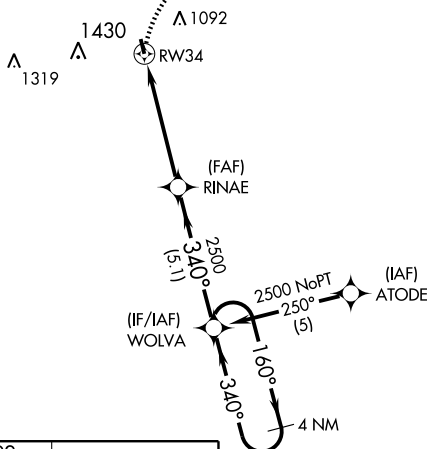
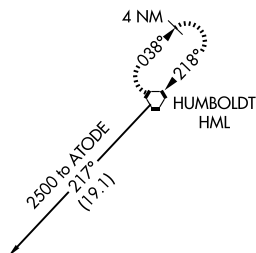
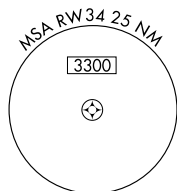
T	Use Hallock altimeter setting.
A NA	GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing right turn to 3500 direct HML VORTAC and hold.

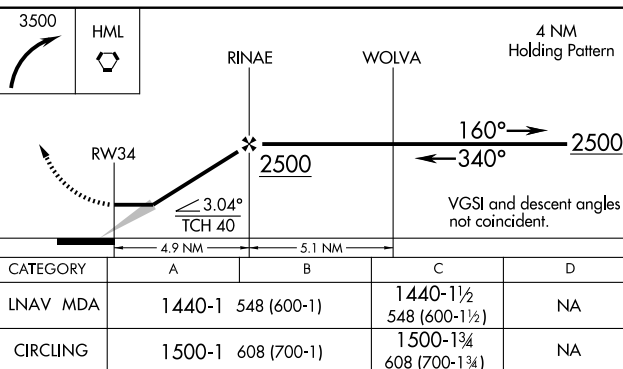
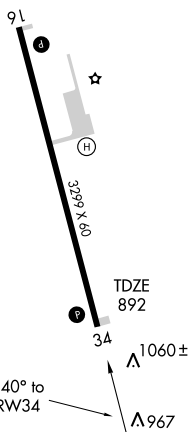
AWOS-3
118,275

GRAND FORKS RADIO
122.3

UNICOM
122.8 (CTAF) **L**



ELEV	892
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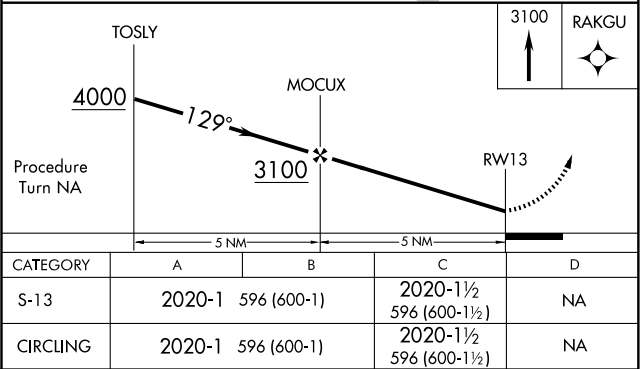
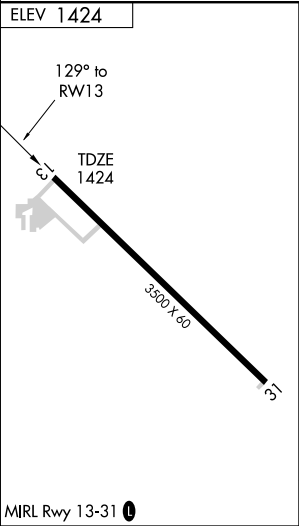
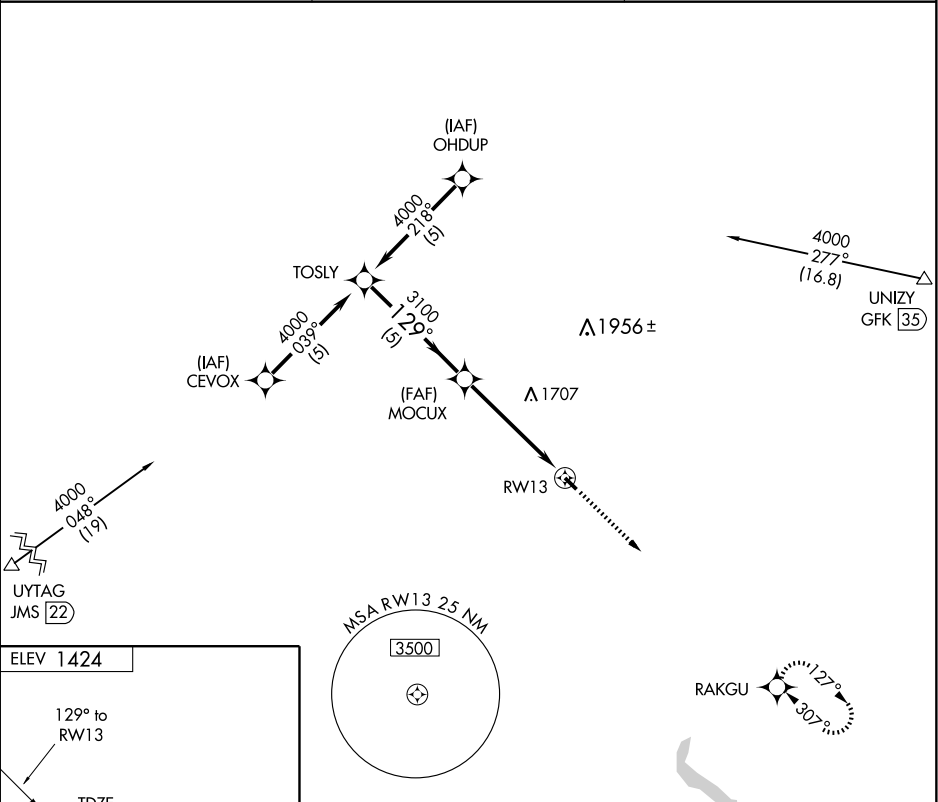


APP CRS	Rwy Idg	3500
129°	TDZE	1424
	Apt Elev	1424

GPS RWY 13
COOPERSTOWN MUNI (S32)

▲ NA	Use Jamestown altimeter setting.	MISSED APPROACH: Climb to 3100 direct RAKGU WP and hold.
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AWOS-3 118.750	GRAND FORKS RADIO 123.6	CTAF 122.9 0
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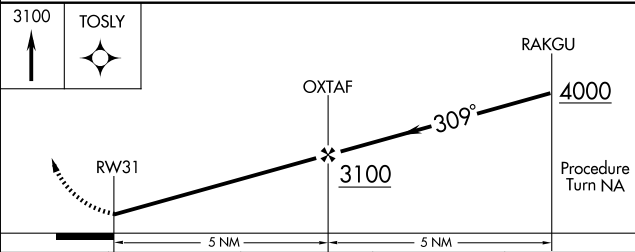
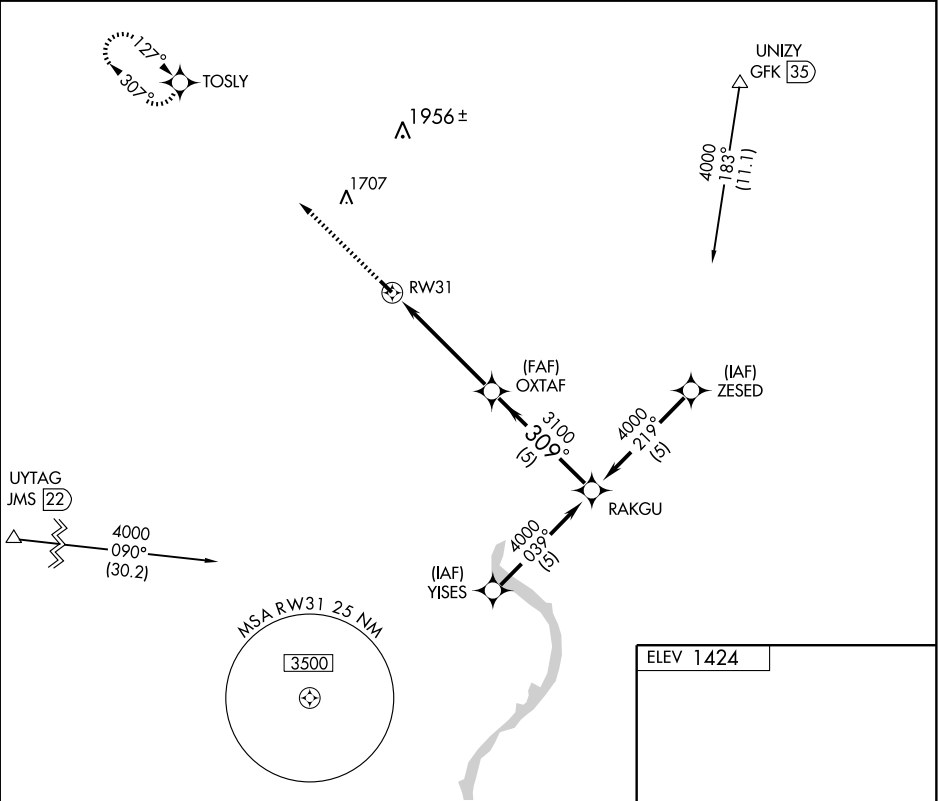


APP CRS	Rwy Idg	3500
309°	TDZE	1424
	Apt Elev	1424

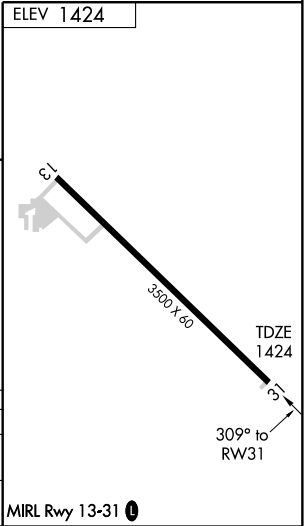
GPS RWY 31
COOPERSTOWN MUNI (S32)

NA	Use Jamestown altimeter setting.	MISSED APPROACH: Climb to 3100 direct TOSLY WP and hold.
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AWOS-3 118.750	GRAND FORKS RADIO 123.6	CTAF 122.9
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CATEGORY	A	B	C	D
S-31	1900-1	476 (500-1)	1900-1¼ 476 (500-1¼)	NA
CIRCLING	2020-1	596 (600-1)	2020-1½ 596 (600-1½)	NA

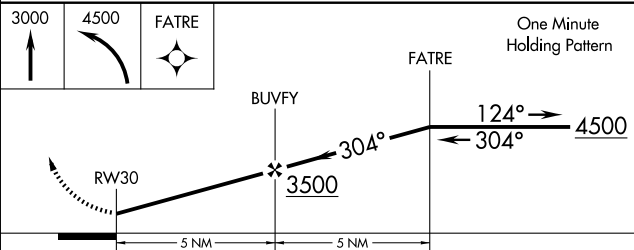
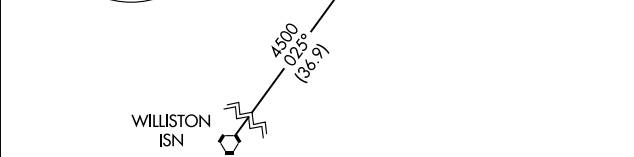
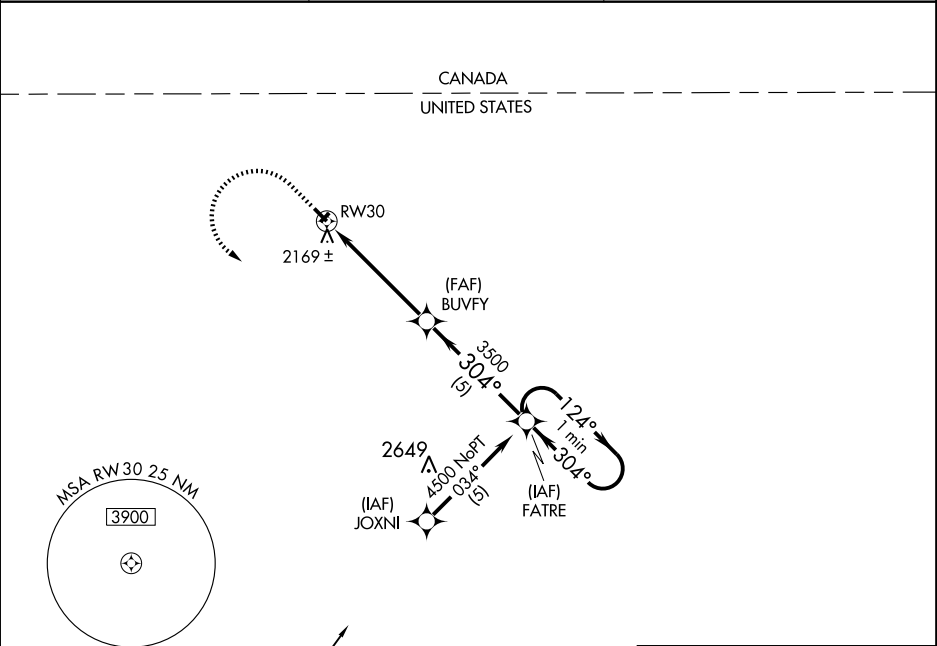


GPS RWY 30
CROSBY MUNI (D50)

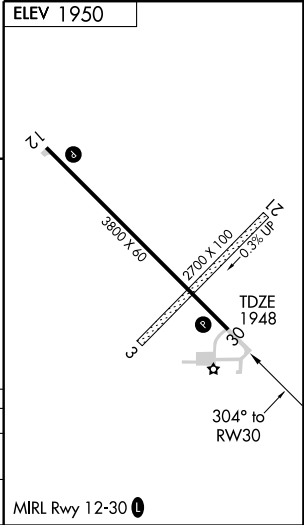
APP CRS	Rwy Idg	3800
304°	TDZE	1948
	Apt Elev	1950

▲ NA	Use Williston altimeter setting.	MISSED APPROACH: Climb to 3000, then climbing left turn to 4500 direct FATRE WP and hold.
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AWOS-3 118.025	SALT LAKE CITY CENTER 126.85 305.2	CTAF 122.9 0
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CATEGORY	A	B	C	D
S-30	2600-1	652 (700-1)	2600-1¾ 652 (700-1¾)	2600-2 652 (700-2)
CIRCLING	2640-1	690 (700-1)	2640-2 690 (700-2)	2640-2 ¼ 690 (700-2 ¼)

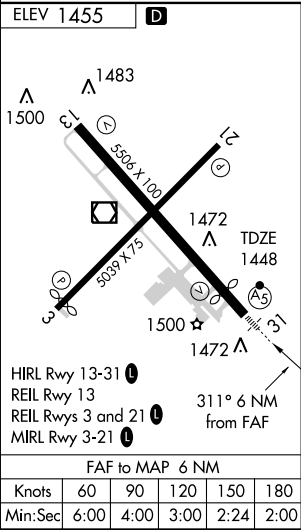
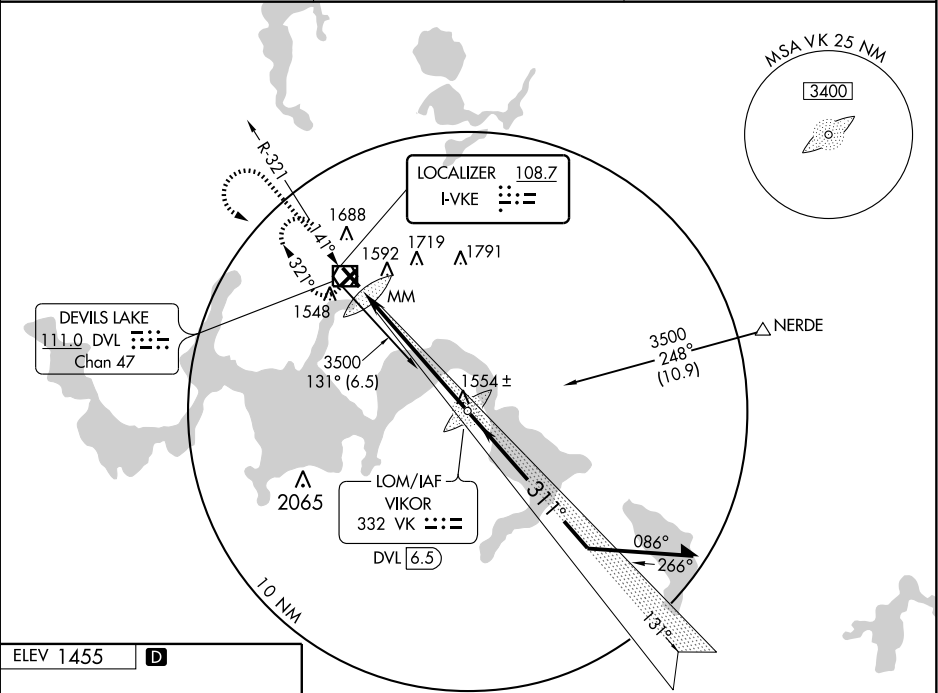


LOC I-VKE	APP CRS	Rwy Idg	4850
108.7	311°	TDZE	1448
		Apt Elev	1455

ILS or LOC RWY 31
DEVILS LAKE RGNL (DVL)

<div><div>▼</div><div>NA</div></div> <div>Inoperative table does not apply to S-ILS 31. For inoperative MALSR increase S-LOC 31 Cat A, B, C visibility to 1 mile.</div>	<div><div>MALSR</div><div><div>AS</div><div><div></div><div></div><div></div></div></div></div> <div>MISSED APPROACH: Climb to 3500 then left turn direct DVL VOR/DME and hold.</div>
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AWOS-3 125.875	GRAND FORKS RADIO 122.3	UNICOM 122.8 (CTAF) 0
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DME OR ADF REQUIRED				
<div><div>3500</div><div><div>DVL</div><div><div>111.0</div></div></div></div> <div><div>LOM</div><div>DVL 6.5</div><div>3465</div><div>137°</div><div>311°</div><div>3500</div><div>GS 3.00°</div><div>TCH 52</div></div>				
CATEGORY	A	B	C	D
S-ILS 31	1698-¾ 250 (300-¾)			
S-LOC 31	1800-¾ 352 (400-¾)			
CIRCLING	2000-1 545 (600-1)		2000-1½ 545 (600-1½)	2080-2 625 (700-2)

WAAS CH 93608 W03A	APP CRS 038°	Rwy Idg TDZE Apt Elev	4856 1450 1455
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RNAV (GPS) RWY 3
DEVILS LAKE RGNL (DVL)

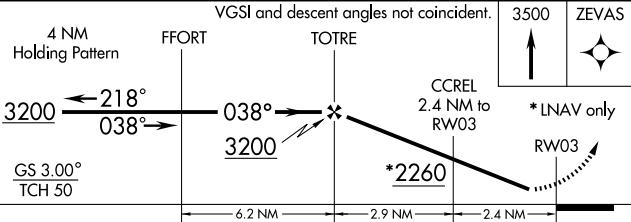
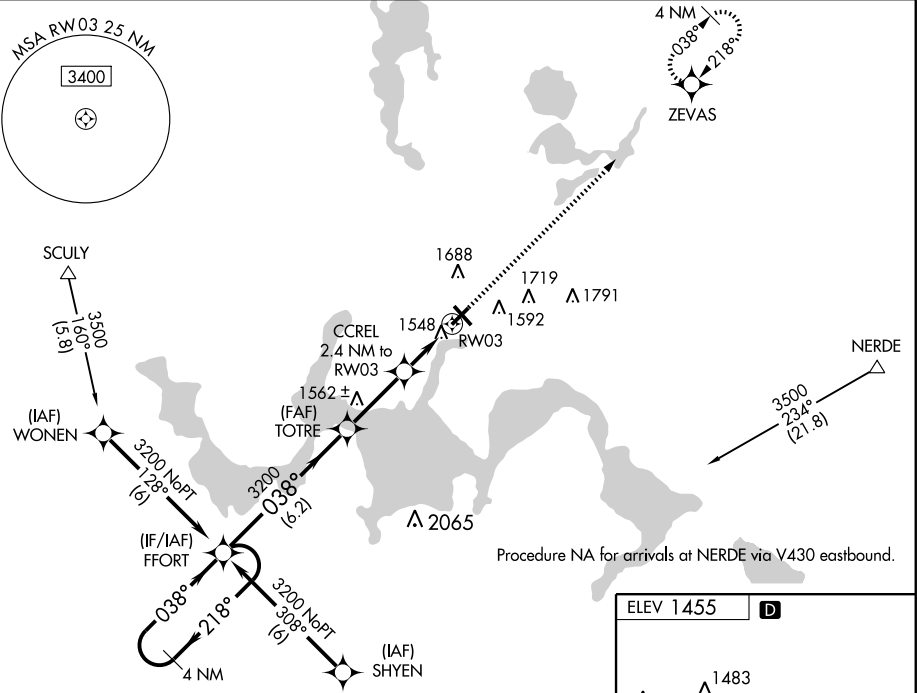
▼ Baro-VNAV NA when using Jamestown altimeter setting.
▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F).
DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Jamestown altimeter setting and increase all DA 173 feet, and all MDA 180 feet, increase LPV and LNAV/VNAV all Cats visibility ¾ mile, LNAV and Circling Cats C and D visibility ½ mile.

MISSED APPROACH: Climb to 3500 direct ZEVAS and hold.

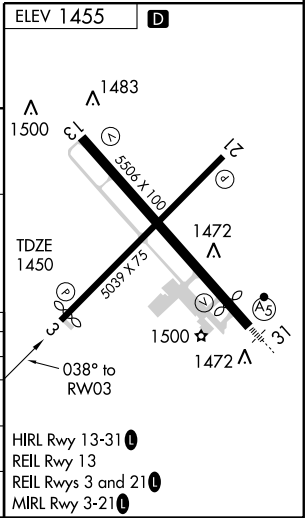
AWOS-3
125.875

GRAND FORKS RADIO
122.3

UNICOM
122.8 (CTAF) ①



CATEGORY	A	B	C	D
LPV DA	1775-1	325 (400-1)		
LNAV/DA	1821-1¼	371 (400-1¼)		
LNAV MDA	1800-1	350 (400-1)	1800-1¼	350 (400-1¼)
CIRCLING	2000-1	545 (600-1)	2000-1½	545 (600-1½)



WAAS CH 78314 W13A	APP CRS 131°	Rwy Idg 5507 TDZE 1456 Apt Elev 1456
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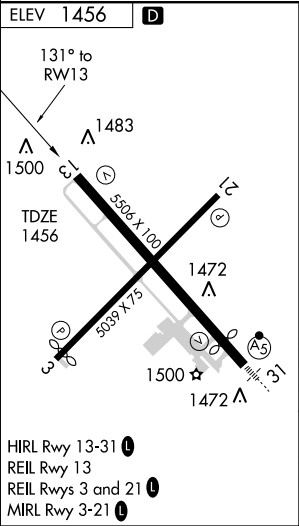
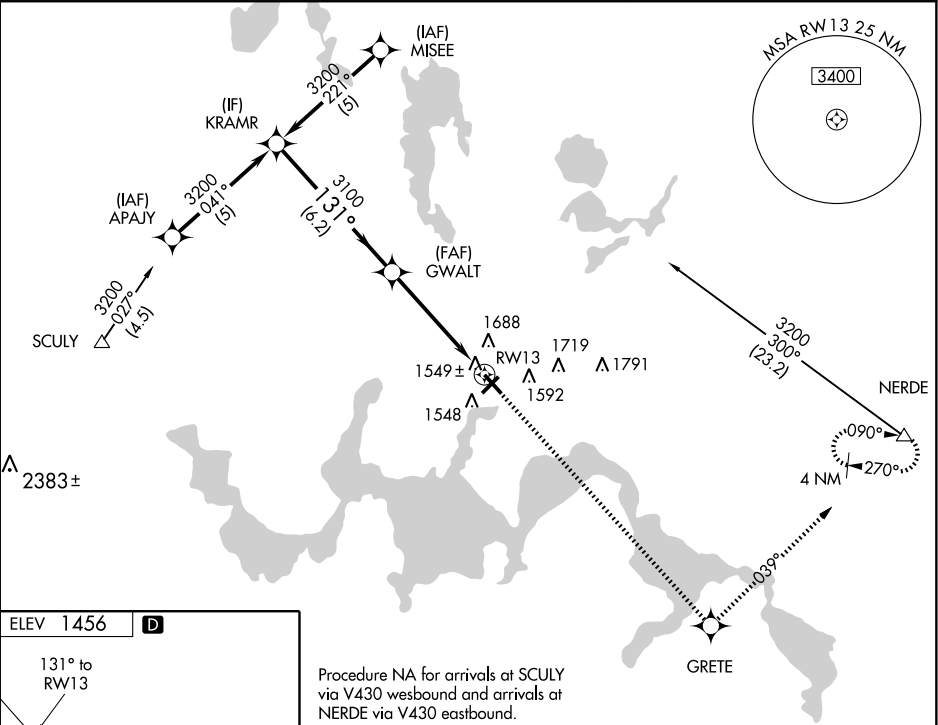
RNAV (GPS) RWY 13

DEVILS LAKE RGNL (DVL)

▼ Baro-VNAV NA when using Jamestown altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Jamestown altimeter setting and increase all DA 172 feet, and all MDA 180 feet, increase LPV all Cats visibility ¾ mile, LNAV/VNAV all Cats ½ mile, LNAV Cat C ¼ mile, Cat D ½ mile, circling Cats C and D ½ mile. VDP NA when using Jamestown altimeter setting.

MISSED APPROACH:
Climb to 3300 direct GRETE and left turn via track 039° to NERDE and hold.

AWOS-3 125.875	GRAND FORKS RADIO 122.3	UNICOM 122.8 (CTAF) 0
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		3300		GRETE	NERDE
Procedure Turn NA		3100		TRK 039°	△
GS 3.00° TCH 52		6.2 NM		3.8 NM	
CATEGORY		A	B	C	D
LPV DA		1768-1		312 (400-1)	
LNAV/ VNAV DA		1956-1¾		500 (500-1¾)	
LNAV MDA		1860-1	404 (500-1)	1860-1¼	404 (500-1¼)
CIRCLING		2000-1	544 (600-1)	2000-1½ 544 (600-1½)	2080-2 624 (700-2)

WAAS CH 58314 W31A	APP CRS 311°	Rwy Idg 4850 TDZE 1449 Apt Elev 1456
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RNAV (GPS) RWY 31
DEVILS LAKE RGNL (DVL)

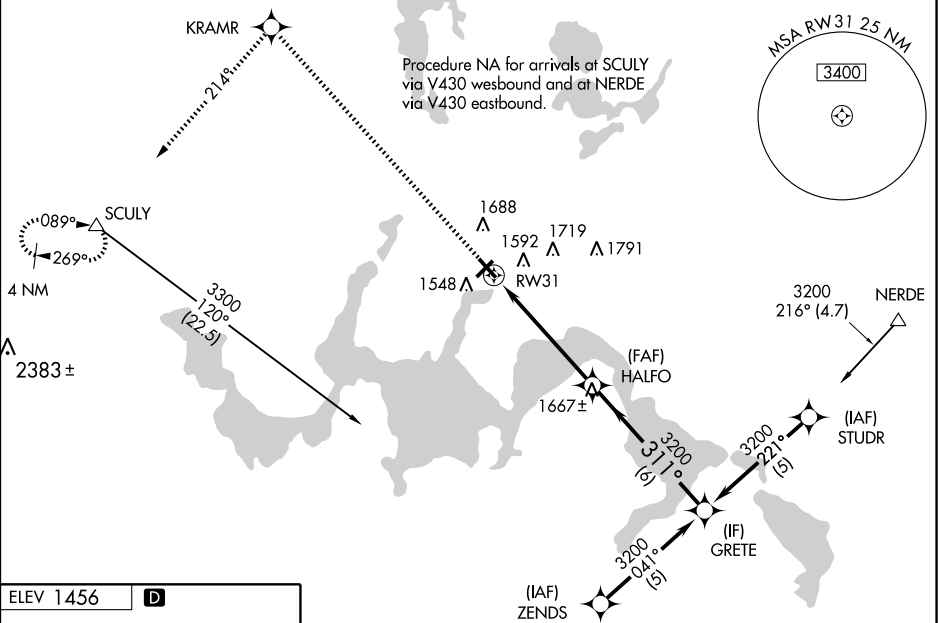
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. For inoperative MALSR, increase visibility LNAV Cat D 1 ¼ mile. When local altimeter setting not received, use Jamestown altimeter setting and increase all DA 172 feet, all MDA 180 feet, increase LPV all Cats visibility ½ mile, LNAV/VNAV all Cats ¾ mile, LNAV Cat C ½ mile, Cat D ¼ mile, circling Cats C and D ½ mile. Baro-VNAV and VDP NA when using Jamestown altimeter setting. For inoperative MALSR, when using Jamestown altimeter setting, increase LPV all Cats visibility to 1 ½ mile.


MALSR

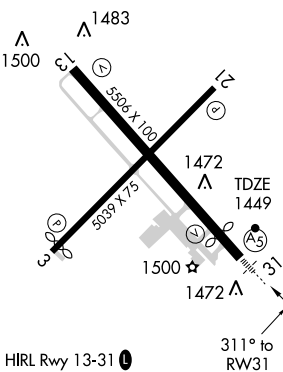






MISSED APPROACH:
Climb to 3600 direct KRAMR and left turn via Track 214° to SCULY and hold.



AWOS-3 125,875	GRAND FORKS RADIO 122.3	UNICOM 122.8 (CTAF) 
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ELEV 1456 



HIRL Rwy 13-31 
REIL Rwy 13 
REIL Rwy 3 and 21 
MIRL Rwy 3-21 

3600 KRAMR  SCULY 				
*1 NM to RWY 31				
*LNAV only.				
VGSI and RNAV glidepath not coincident.				
GS 3.00° TCH 52				
CATEGORY	A	B	C	D
LPV DA	1699-½		250 (300-½)	
LNAV/VNAV DA	1907-1		458 (500-1)	
LNAV MDA	1800-½		351 (400-½)	
CIRCLING	2000-1		544 (600-1)	
		2000-1½		2080-2
		544 (600-1½)		624 (700-2)

VOR/DME DVL	APP CRS	Rwy Idg	4856
111.0	030°	TDZE	1450
Chan 47		Apt Elev	1455

VOR RWY 3
DEVILS LAKE RGNL (DVL)

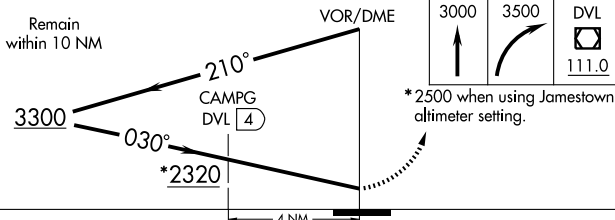
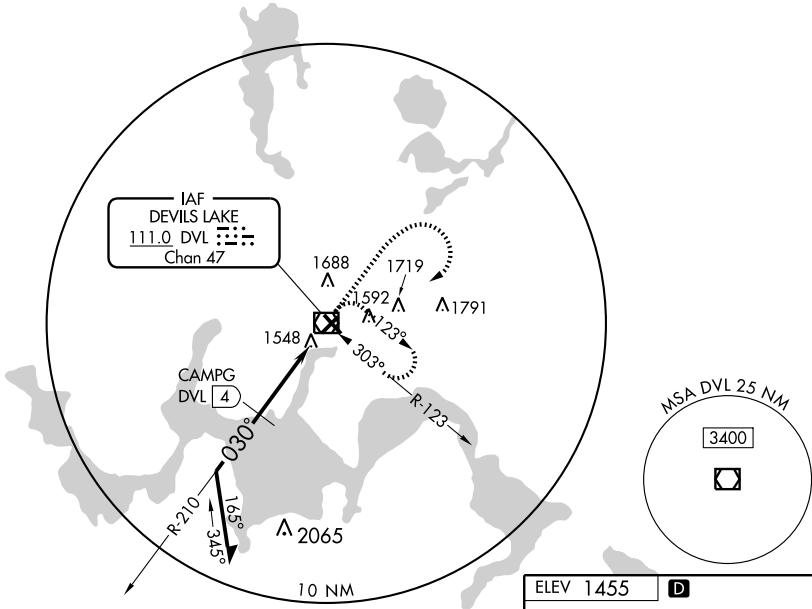
Visibility reduction by helicopters NA.
When local altimeter setting not received, use Jamestown altimeter setting and increase all MDA 180 feet, increase S-3 and Circling visibility Cat. A/B and D ¼ mile, Cat. C ½ mile, increase CAMPG FIX MINIMUMS S-3 and Circling Cat. C and D visibility ½ mile.

MISSED APPROACH: Climb to 3000 then climbing right turn to 3500 direct DVL VOR/DME and hold.

AWOS-3
125.875

GRAND FORKS RADIO
122.3

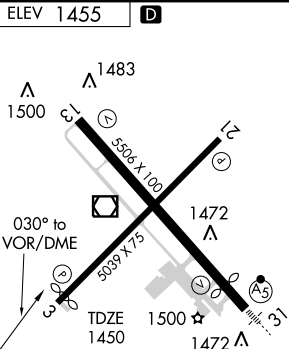
UNICOM
122.8 (CTAF)



CATEGORY	A	B	C	D
S-3	2320-1 870 (900-1)	2320-1¼ 870 (900-1¼)	2320-2½ 870 (900-2½)	2320-2¾ 870 (900-2¾)
CIRCLING	2320-1 865 (900-1)	2320-1¼ 865 (900-1¼)	2320-2½ 865 (900-2½)	2320-2¾ 865 (900-2¾)

CAMPG FIX MINIMUMS

S-3	1800-1 350 (400-1)	1800-1¼ 350 (400-1¼)
CIRCLING	2000-1 545 (600-1)	2000-1½ 545 (600-1½)



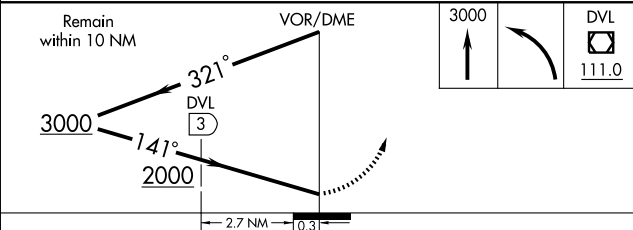
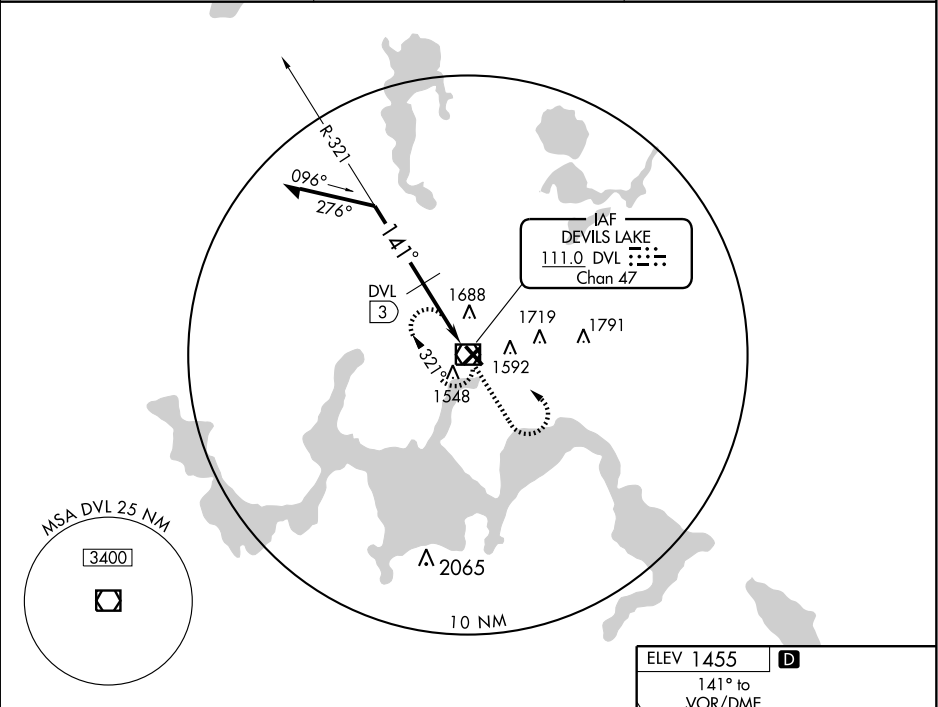
HIRL Rwy 13-31
REIL Rwy 13
REIL Rwys 3 and 21
MIRL Rwy 3-21

VOR/DME DVL	APP CRS	Rwy Idg	5506
111.0	141°	TDZE	1455
Chan 47		Apt Elev	1455

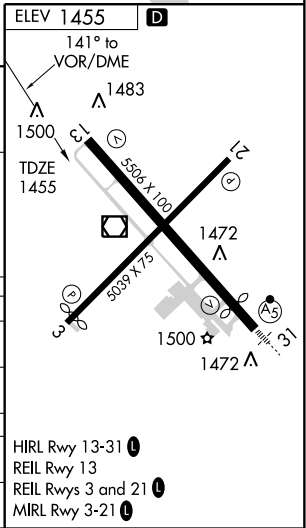
VOR RWY 13
DEVILS LAKE RGNL(DVL)

T	MISSED APPROACH: Climb to 3000 then left turn direct DVL VOR/DME and hold.
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AWOS-3 125.875	GRAND FORKS RADIO 122.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-13	2000-1	545 (600-1)	2000-1½ 545 (600-1½)	2000-1¾ 545 (600-1¾)
CIRCLING	2000-1	545 (600-1)	2000-1½ 545 (600-1½)	2080-2 625 (700-2)
DME MINIMUMS				
S-13	1940-1	485 (500-1)	1940-1¼ 485 (500-1¼)	1940-1½ 485 (500-1½)
CIRCLING	2000-1	545 (600-1)	2000-1½ 545 (600-1½)	2080-2 625 (700-2)



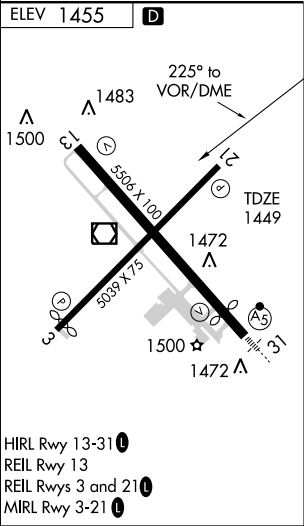
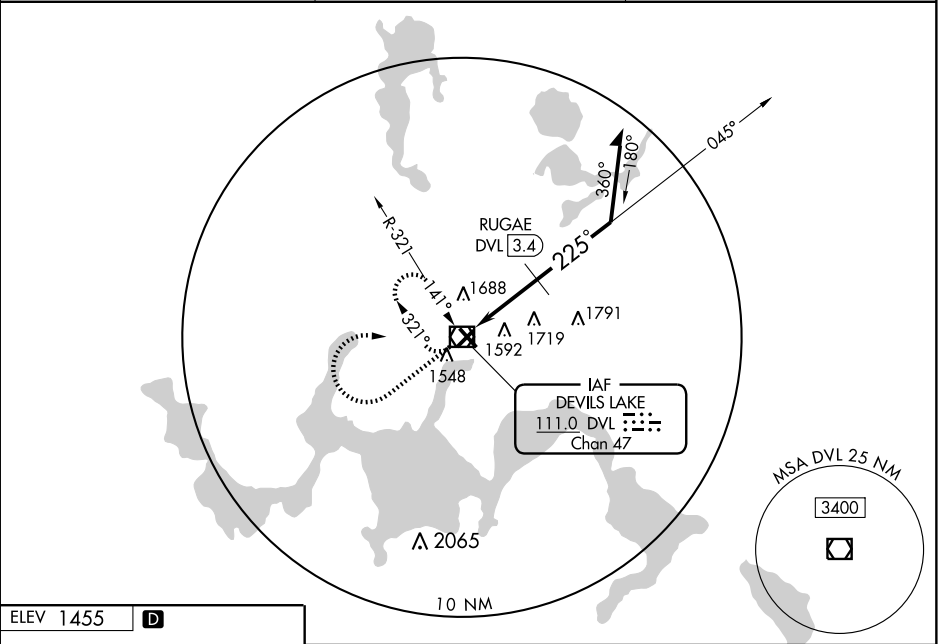
VOR/DME DVL	APP CRS	Rwy Idg	5039
111.0	225°	TDZE	1449
Chan 47		Apt Elev	1455

VOR RWY 21
DEVILS LAKE RGNL (DVL)

When local altimeter setting not received, use Jamestown altimeter setting and increase all MDA 180 feet, increase S-21 and Circling visibility Cat. A ¼ mile, Cat. C and D ½ mile, increase RUGAE FIX MINIMUMS S-21 and Circling visibility Cat. B to 1¼, Cat. C to 2¼ and Cat. D to 2½. VDP NA when using Jamestown altimeter setting.

MISSED APPROACH: Climb to 3000 then climbing right turn to 3500 direct DVL VOR/DME and hold.

AWOS-3 125.875	GRAND FORKS RADIO 122.3	UNICOM 122.8 (CTAF) 0
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3000	3500	DVL	VOR/DME	Remain within 10 NM
		111.0		
*2380 when using Jamestown altimeter setting.				
CATEGORY	A	B	C	D
S-21	2200-1 751 (800-1)	2200-1¼ 751 (800-1¼)	2200-2¼ 751 (800-2¼)	2200-2½ 751 (800-2½)
CIRCLING	2200-1 745 (800-1)	2200-1¼ 745 (800-1¼)	2200-2¼ 745 (800-2¼)	2200-2½ 745 (800-2½)
RUGAE FIX MINIMUMS				
S-21	2020-1	571 (600-1)	2020-1½ 571 (600-1½)	2020-1¾ 571 (600-1¾)
CIRCLING	2020-1	565 (600-1)	2020-1½ 565 (600-1½)	2080-2 625 (700-2)

AL-5305 (FAA)

VOR/DME DVL 111.0 Chan 47	APP CRS 303°	Rwy Idg 4850 TDZE 1448 Apt Elev 1455
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VOR RWY 31
DEVILS LAKE RGNL(DVL)

T S-31 Cats A and B visibility increased ¼ mile for inoperative MALSR.

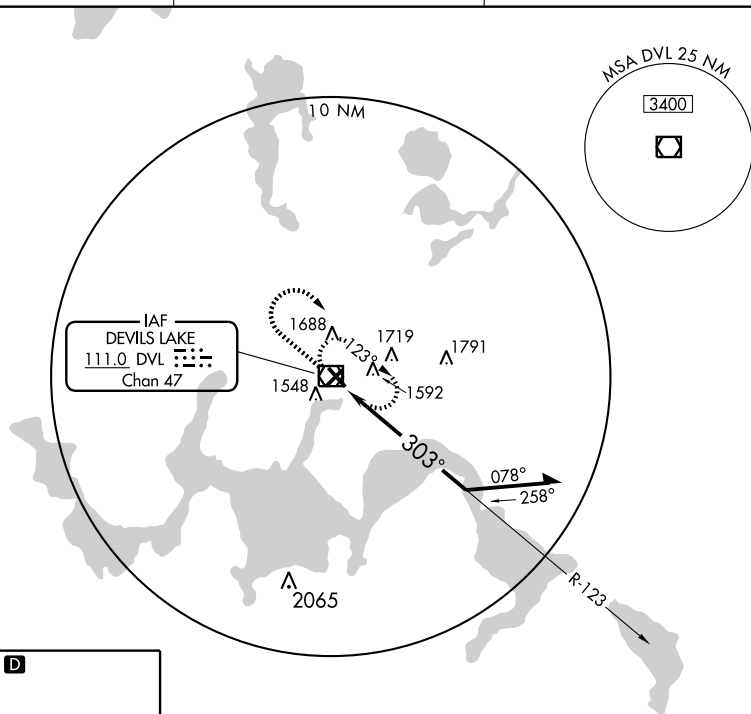
MALSR

MISSED APPROACH: Climb to 3000 then right turn direct DVL VOR/DME and hold.

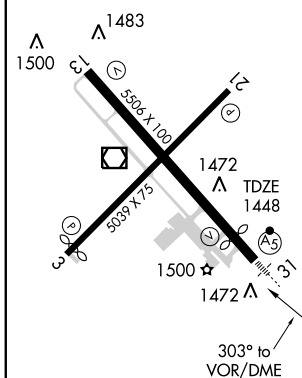
AWOS-3
125.875

GRAND FORKS RADIO
122.3

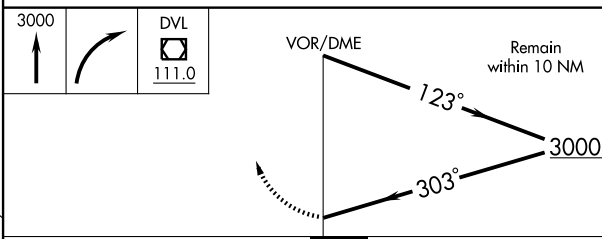
UNICOM
122.8 (CTAF) **L**



ELEV 1455	D
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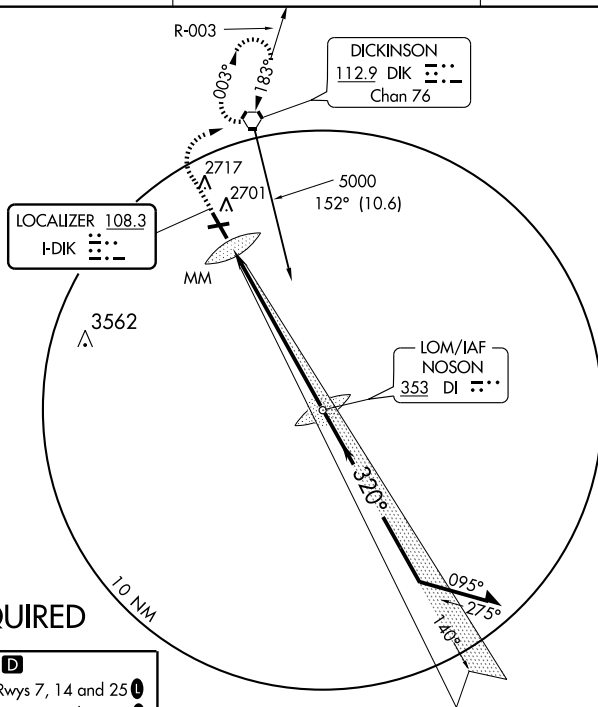
HIRL Rwy 13-31 **L**
REIL Rwy 13
REIL Rwy 3 and 21 **L**
MIRL Rwy 3-21 **L**



CATEGORY	A	B	C	D
S-31	1920- $\frac{3}{4}$ 472 (500- $\frac{3}{4}$)			1920-1 472 (500-1)
CIRCLING	2000-1 545 (600-1)		2000-1 $\frac{1}{2}$ 545 (600-1 $\frac{1}{2}$)	2080-2 625 (700-2)

NC-1. 22 OCT 2009 to 19 NOV 2009

MISSED APPROACH: Climb to 5000 then right turn direct DIK VORTAC and hold.

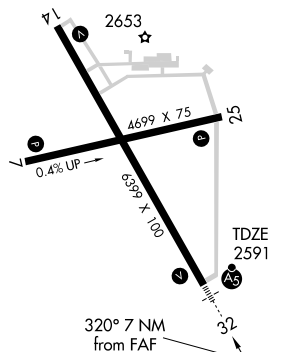
UNICOM
123.0 (CTAF) **L**

MSA DI 25 NM

4600

ADF REQUIRED

ELEV 2592

REIL Rwy 7, 14 and 25 **L**MIRL Rwy 7-25 and 14-32 **L**

FAF to MAP 7 NM

Knots	60	90	120	150	180
Min:Sec	7:00	4:40	3:30	2:48	2:20

5000



DIK



VGSI and ILS glidepath
not coincident.

Remain
within 10 NM

LOM

7

4917

--	--

B

279

500 1/

00-1)

5000

662

TCH.

D

3080-

39 (500)

68 (600

MISSED APPROACH: Climb to 5000 direct LUGI and hold.

UNICOM
123.0 (CTAF) **L**

Diagram illustrating the geometry of the observation. A ray from the star SOXOW is shown at a distance of 4600 light years, with an angle of 289° and a parallax of (20.1) arcseconds.

MIRL Rwy 7-25 and 14-32 **L**

CATEGORY	A	B	C	D
LPV DA	2840-1 251 (300-1)			
LNAV/ VNAV DA	3060-1 $\frac{3}{4}$ 471 (500-1 $\frac{3}{4}$)			
LNAV MDA	3020-1 431 (500-1)	3020-1 $\frac{1}{4}$ 431 (500-1 $\frac{1}{4}$)	3020-1 $\frac{1}{2}$ 431 (500-1 $\frac{1}{2}$)	
CIRCLING	3080-1 $\frac{3}{4}$ 488 (500-1 $\frac{3}{4}$)			3160-2 568 (600-2)

RNAV (GPS) RWY 32

DICKINSON-THEODORE ROOSEVELT RGNL (DIK)

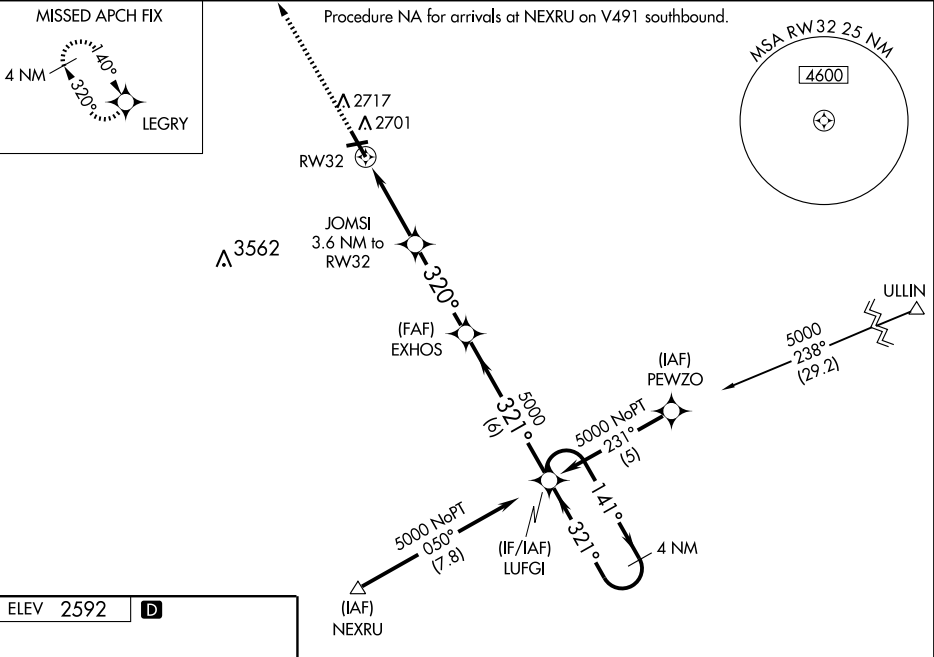
WAAS CH 45512 W32A	APP CRS 320°	Rwy Idg TDZE Apt Elev	6399 2591 2592
--	------------------------	-----------------------------	---

⚠ DME/DME RNP- 0.3 NA. Baro-VNAV NA below -20°C (-4°F).
⚠ VDP and Baro-VNAV NA when using Bowman Muni altimeter setting.
If local altimeter setting not received, use Bowman Muni altimeter setting and increase all DAs/MDAs 280 feet
For inoperative MALS, increase LPV all CATS visibility to ¾ mile, LNAV/VNAV CAT D visibility to 1 mile and LNAV CAT D visibility to 1¼ mile.

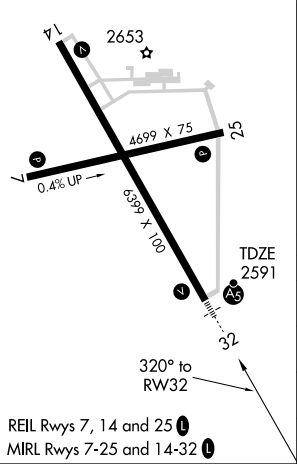
MALS R

MISSED APPROACH: Climb to 5000 direct LEGRY and hold.

ASOS 118.375	MINNEAPOLIS CENTER 124.25 380.3	UNICOM 123.0 (CTAF) 0
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ELEV 2592	D
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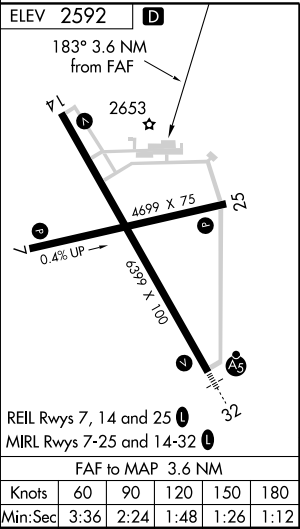
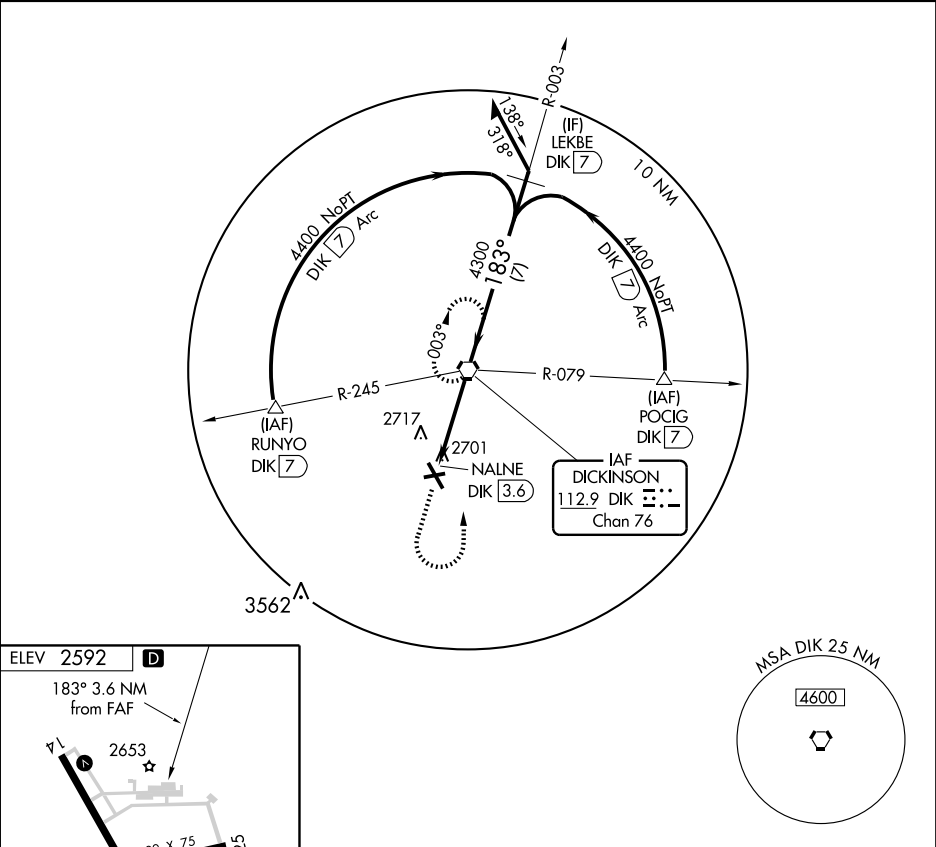
5000	LEGRY	VGSI and RNAV glidepath not coincident.				4 NM Holding Pattern
*LNAV only		JOMSI 3.6 NM to RW32	EXHOS	LUFGE		
		*1.1 NM to RW32				
		320°	321°	141°	5000	GS 3.00° TCH 59
		3800	5000			
		1.1 NM	2.5 NM	3.6 NM	6 NM	
CATEGORY	A	B	C	D		
LPV DA	2850-½ 259 (300-½)					
LNAV/ VNAV DA	2860-½ 269 (300-½)					2860-¾ 269 (300-¾)
LNAV MDA	3000-½ 409 (500-½)		3000-¾ 409 (500-¾)		3000-1 409 (500-1)	
CIRCLING	3080-1 488 (500-1)		3080-1½ 488 (500-1½)		3160-2 568 (600-2)	


VORTAC DIK	APP CRS	Rwy Idg	N/A
112.9	183°	TDZE	N/A
Chan 76		Apt Elev	2592

DICKINSON-THEODORE ROOSEVELT RGNL (DIK)

<p>⚠ If local altimeter setting not received, use Bowman Muni altimeter setting and increase all MDAs 280 feet.</p>	<p>MISSED APPROACH: Climb to 4600 then turn left direct DIK VORTAC and hold.</p>
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ASOS 118.375	MINNEAPOLIS CENTER 124.25 380.3	UNICOM 123.0 (CTAF) 0
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<div>4600 ↑</div>		<div>DIK  112.9</div>	<div>VORTAC</div>		<div>Remain within 10 NM</div>
<div>NALNE DIK 3.6</div>		<div>003°</div>			
<div>4300</div>		<div>183°</div>			
<div>4400</div>					
<div>3.6 NM</div>					
CATEGORY	A	B	C	D	
CIRCLING	3080-1	488 (500-1)	3080-1½ 488 (500-1½)	3160-2 568 (600-2)	

AIRPORT DIAGRAM

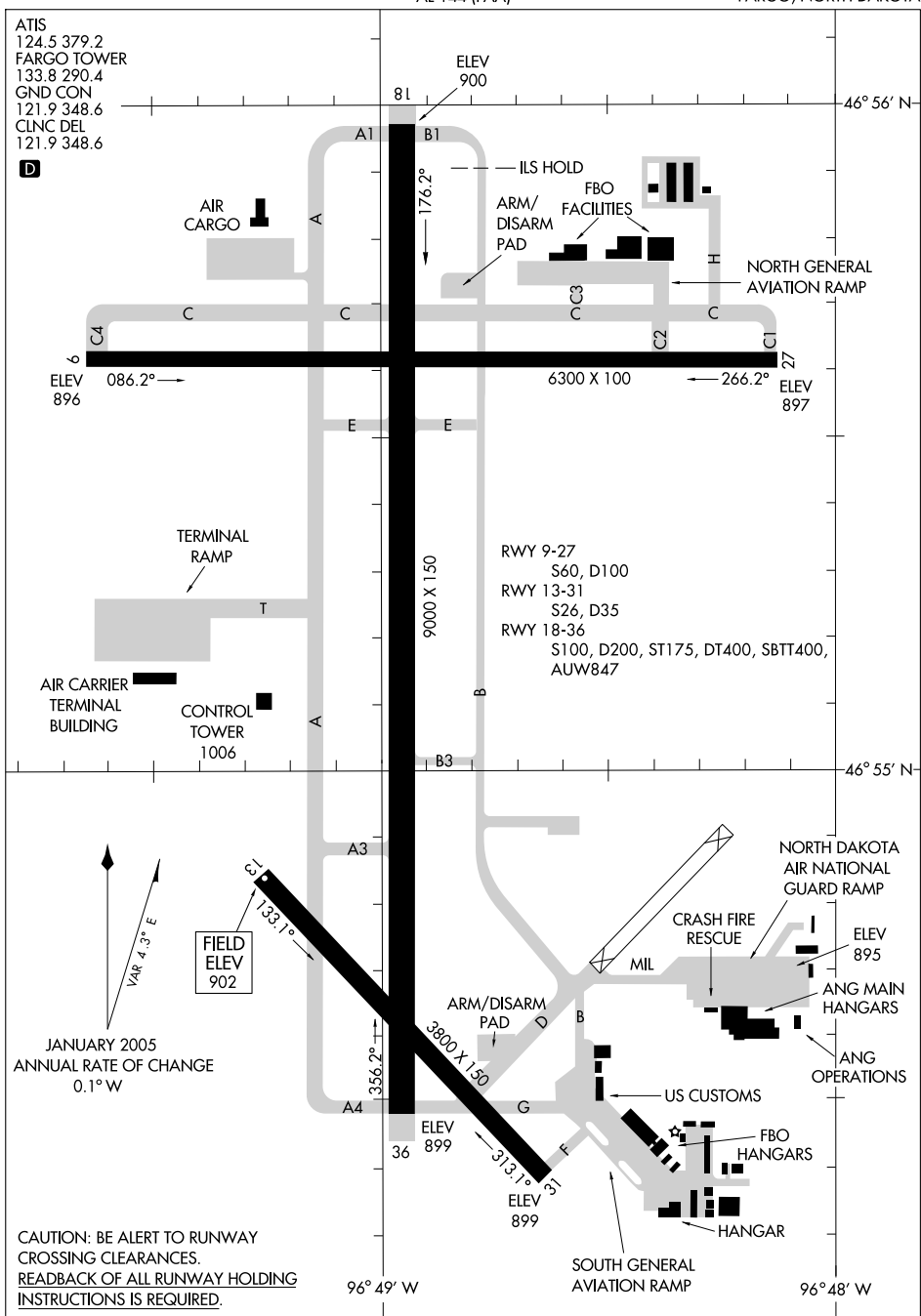
AL-144 (FAA)

FARGO/HECTOR INTL (FAR)

FARGO, NORTH DAKOTA

ATIS
124.5 379.2
FARGO TOWER
133.8 290.4
GND CON
121.9 348.6
CLNC DEL
121.9 348.6

D



NC-1, 22 OCT 2009 to 19 NOV 2009

VORTAC FAR 116.2 Chan 109	APP CRS 178°	Rwy Idg TDZE Apt Elev 900 900 902
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JAL-144 [USAF]

FARGO/HECTOR INTL (FAR)

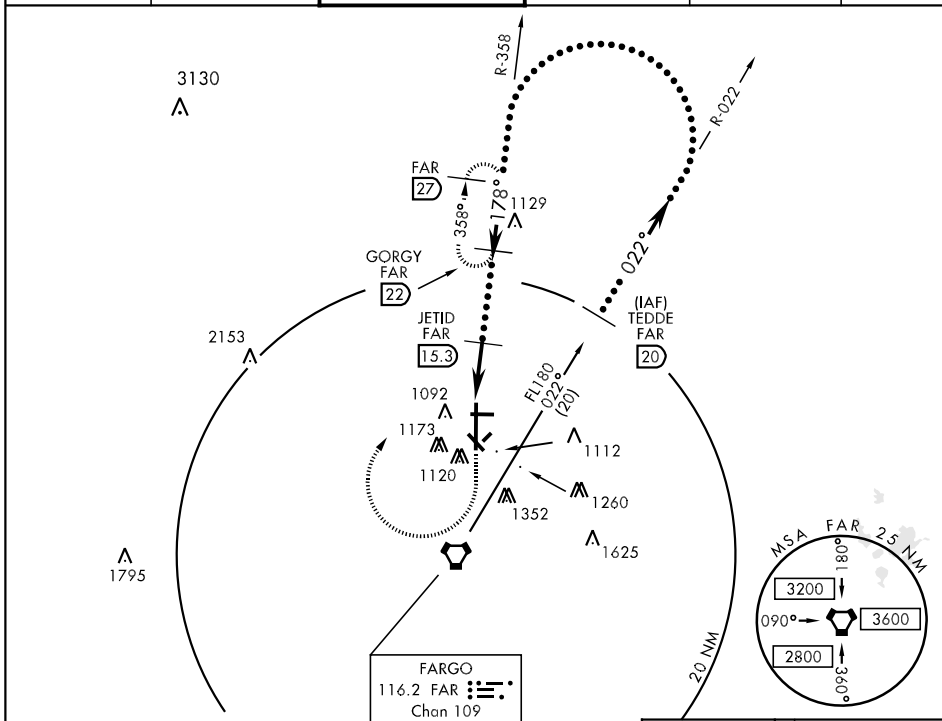
▼ * When ALS inop, increase CAT C RVR to 50 and vis to 1 mile, CAT DE RVR to 60 and vis to 1¼ mile.

MALSR

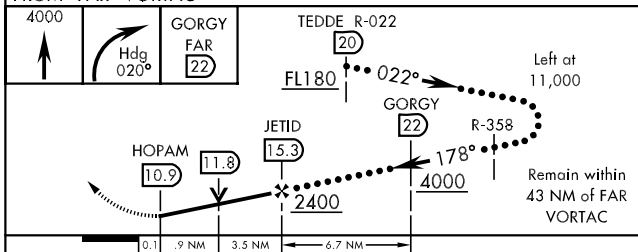


MISSED APPROACH: Climb to 4000 then right turn via heading 020° to intercept the FAR R-358 to GORGY 22 DME and hold.

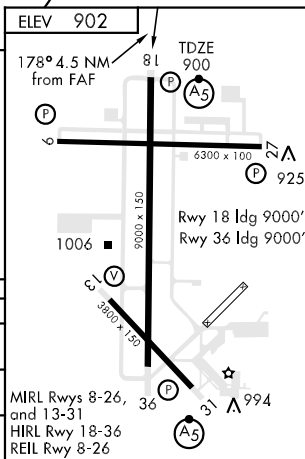
ATIS 124.5 379.2	FARGO APP CON 120.4 377.15	FARGO TOWER 133.8 290.4	GND CON 121.9 348.6	CLNC DEL 121.9 348.6	ASR
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EMERG SAFE ALT 100 NM 4200
FROM "FAR" VORTAC



CATEGORY	C	D	E
S-TAC 18	1260/24 360 (400-½)	1260/50 360	(400-1)
CIRCLING	1380-1½ 478 (500-1½)	1500-2 598 (600-2)	1560-2¼ 658 (700-2¼)
S-ASR 18 *	1260/24 360 (400-½)	1260/50 360	(400-1)



FARGO, NORTH DAKOTA

46° 55'N-96° 49'W

FARGO/HECTOR INTL (FAR)

Amdt 7 02270

ULT TACAN RWY 18

VORTAC FAR 116.2 Chan 109	APP CRS 360°	Rwy Idg 9000 TDZE 899 Apt Elev 902	JAL-144 [USAF]	HI-VOR or TACAN RWY 36 FARGO/HECTOR INTL (FAR)
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T * When ALS inop, increase CAT E vis to 2 1/2 miles.
 ** When ALS inop, increase CAT E vis to 1 3/4 miles.

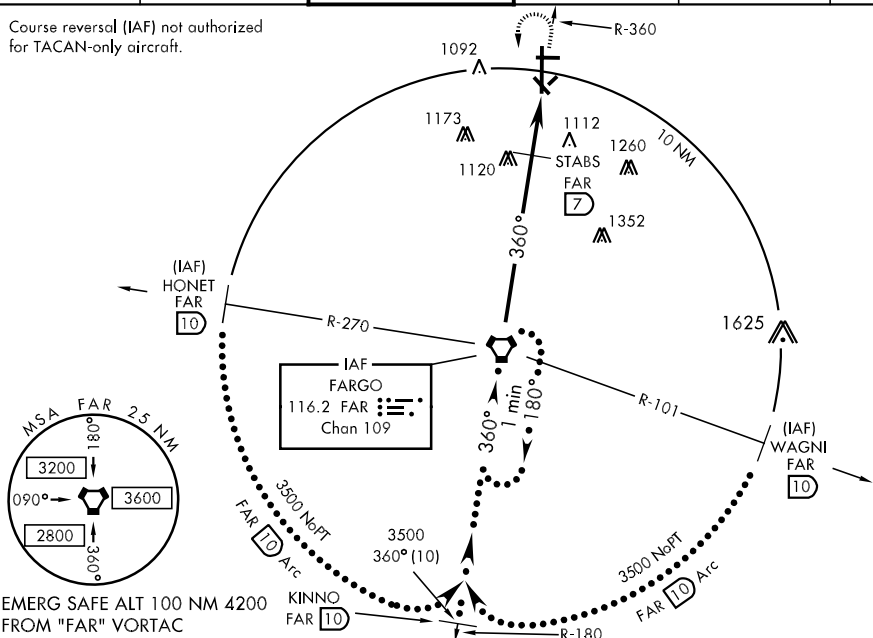
MALSR

MISSED APPROACH: Climbing left turn to 3500 direct FAR VORTAC and hold. (TACAN aircraft climbing left turn to 3500 direct FAR VORTAC then via FAR R-180 to KINNO/FAR 10 DME and hold south, right turns, 360° inbound.)

ATIS	FARGO APP CON	FARGO TOWER	GND CON	CLNC DEL	ASR
124.5 379.2	120.4 377.15	133.8 290.4	121.9 348.6	121.9 348.6	

Course reversal (IAF) not authorized
for TACAN-only aircraft.



EMERG SAFE ALT 100 NM 4200
FROM "FAR" VORTAC

One minute
holding pattern

VORTAC

$$\frac{3500}{360^\circ}$$

STABS
FAR

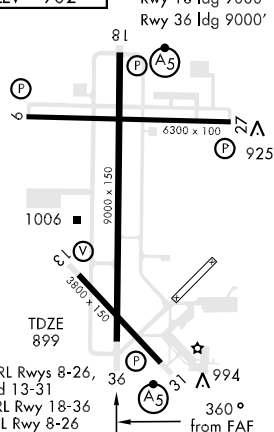
3500

EAP

FIFV 902

Rwy 18 Idg 9000'

Rwy 36 Ldg 8000'



MIRL Rwy 8-26, 36
and 13-31
HIRL Rwy 18-36
REIL Rwy 8-26

FAF to MAP 9.4 NM

Knots	120	140	160	180	200
Min:Sec	4:42	4:02	3:31	3:08	2:49

CATEGORY	C	D	E
S-36 *	1600-1½ 701 (700-1½)	1600-1¾ 701 (700-1¾)	1600-2 701 (700-2)
CIRCLING	1600-2 698 (700-2)	1600-2¼ 698 (700-2¼)	1600-2½ 698 (700-2½)
S-ASR 36	1420/50 521 (600-1)	1420/60 521 (600-1¼)	
STABS FIX MINIMUMS			
S-36 **	1380/40 481 (500-¾)	1380/50 481 (500-1)	1380/60 481 (500-1¼)
CIRCLING	1380-1½ 478 (500-1½)	1500-2 598 (600-2)	1560-2¼ 658 (700-2¼)

FARGO, NORTH DAKOTA

46° 55' N-96° 49' W

FARGO/HECTOR INTL (FAR

▼

For inoperative MALS, increase S-ILS 18 Cat E visibility to RVR 4000, and S-LOC 18 Cat E visibility to RVR 5000.

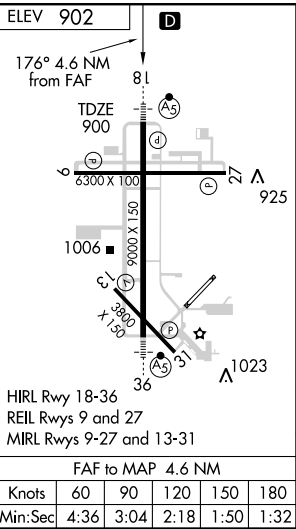
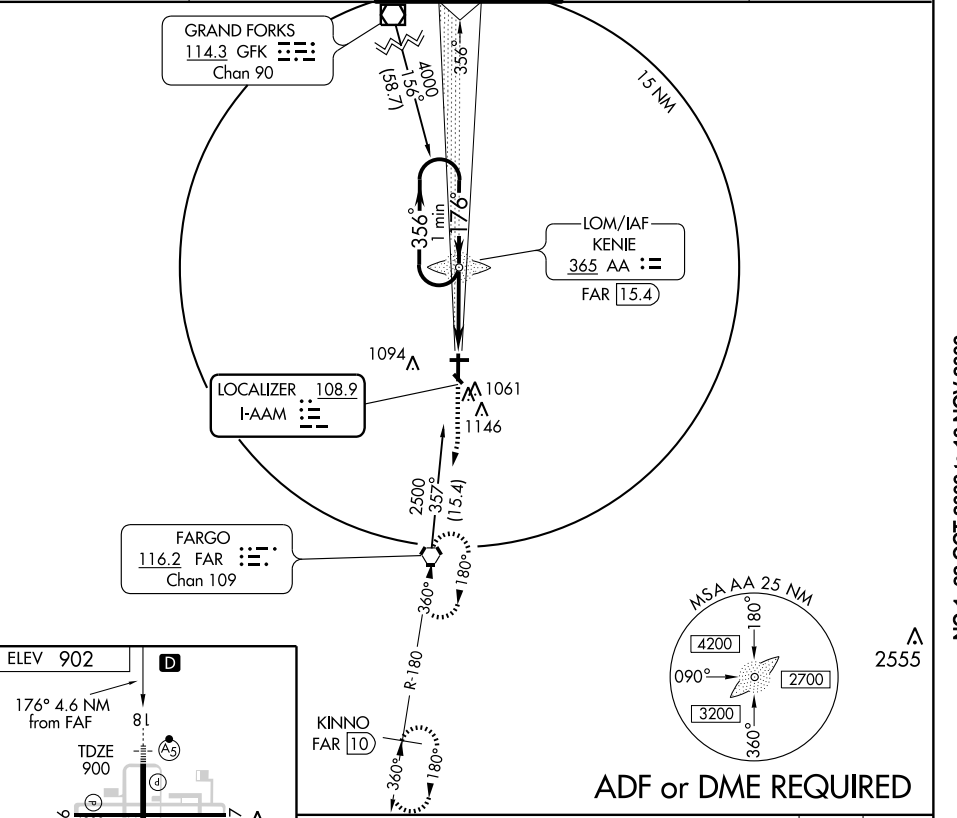
▲

* Visibility CAT A/B/C/D RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALS

MISSED APPROACH: Climb to 2500 direct FAR VORTAC and hold. (TACAN aircraft climb to 3500 direct FAR VORTAC, then via FAR R-180 to KINNO/FAR 10 DME and hold S, RT, 360° inbound.)

ATIS 124.5 379.2	FARGO APP CON★ 120.4 377.15	FARGO TOWER 133.8 290.4	GND CON 121.9 348.6	CLNC DEL 121.9 348.6
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One Minute Holding Pattern		KENIE LOM FAR 15.4		2500	FAR 116.2
2500 ← 356° 176° → 2432		2500		FAR 10.9	
GS 3.00° TCH 51		VGSi and ILS glidepath not coincident.		4.6 NM	
CATEGORY	A	B	C	D	E
S-ILS 18	*1100/24 200 (200-½)				
S-LOC 18	1260/24 360 (400-½)			1260/40 360 (400-¾)	
CIRCLING	1380-1 478 (500-1)		1380-1½ 478 (500-1½)	1500-2 598 (600-2)	1560-2½ 658 (700-2½)

LOC I-FAR	APP CRS	Rwy Idg	9000
110.3	356°	TDZE	899
		Apt Elev	902

ILS or LOC RWY 36
FARGO/HECTOR INTL (FAR)

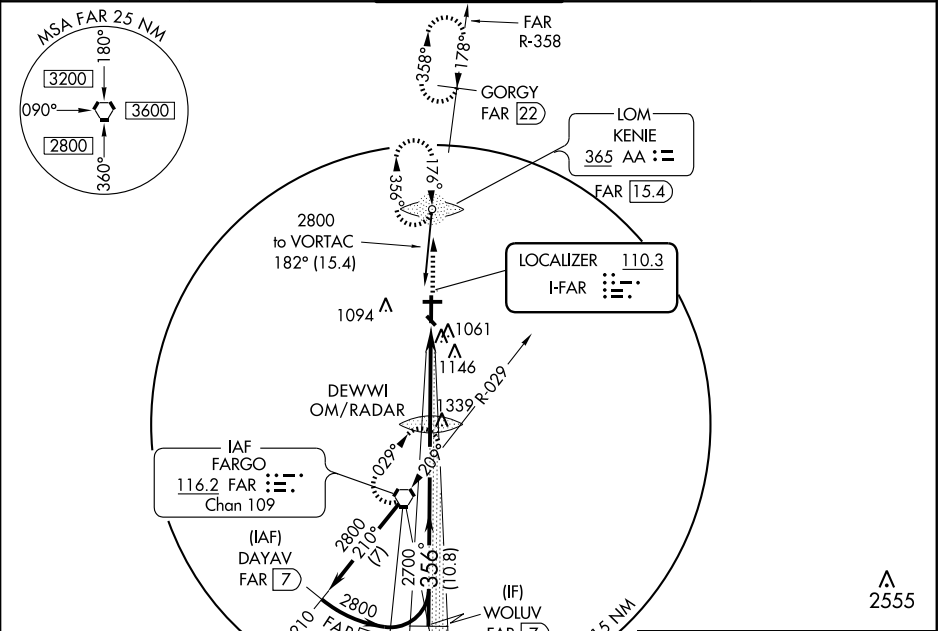
⚠ For inoperative MALS, increase S-ILS 36 Cat E visibility to RVR 4000, and S-LOC 36 Cat E visibility to 1½.

⚠ # Visibility CAT A/B/C/D RVR 1800 authorized with the use of FD or AP or HUD to DA. ADF or DME required.

MALSR

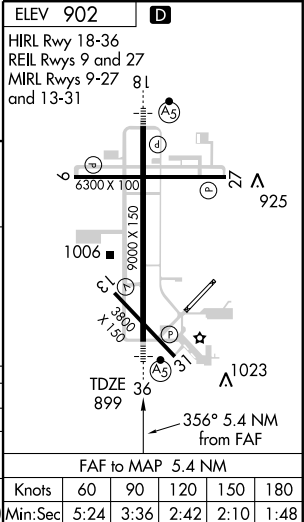
MISSED APPROACH: Climb via FAR R-357 to 2800 direct KENIE LOM and hold. (DME aircraft climb to 4000 via FAR R-358 to GORGY/FAR 22 DME and hold N, RT, 178° inbound.)

ATIS 124.5 379.2	FARGO APP CON★ 120.4 377.15	FARGO TOWER 133.8 290.4	GND CON 121.9 348.6	CLNC DEL 121.9 348.6
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DME REQUIRED

	WOLUV FAR 7		DEWWI OM/RADAR		2800	AA
Procedure	Turn					365
	NA					
	2800		2706			
	356°		2800			
	2800		*2700			
	GS 3.00°		*LOC only			
	TCH 55					
	10.8 NM		5.4 NM			
CATEGORY	A	B	C	D	E	
S-ILS 36	# 1099/24 200 (200-½)					
S-LOC 36	1340/24	441 (500-½)	1340/40 441 (500-¾)	1340/50	441 (500-1)	
CIRCLING	1380-1	478 (500-1)	1380-1½ 478 (500-1½)	1500-2 598 (600-2)	1560-2¼ 658 (700-2¼)	



FARGO, NORTH DAKOTA

APP CRS	Rwy Idg	6300
086°	TDZE	900
	Apt Elev	902

AL-144 (FAA)

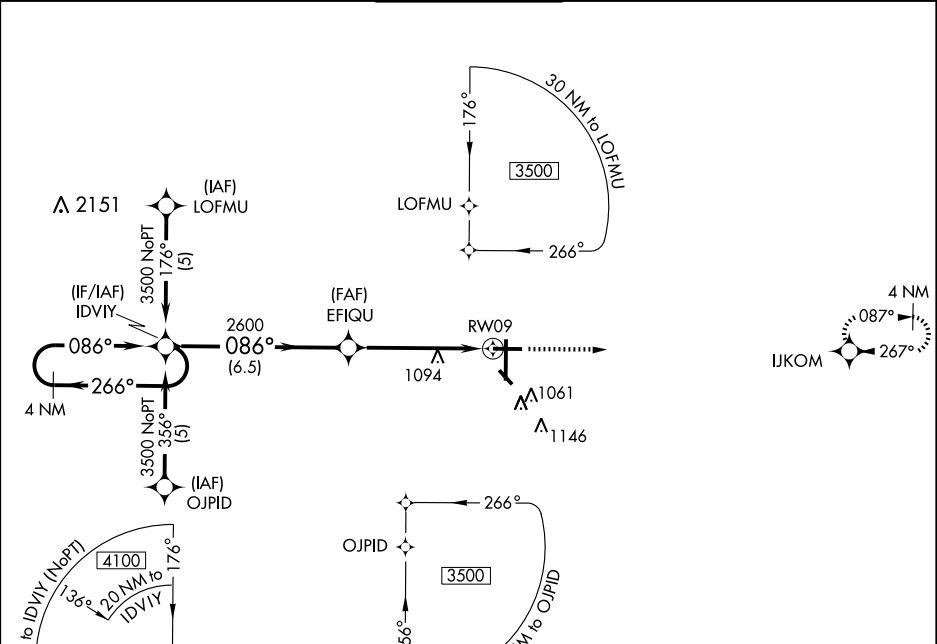
RNAV (GPS) RWY 9

FARGO/HECTOR INTL (FAR)

DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3500 direct IJKOM and hold.

<div>ATIS</div> <div>124.5 379.2</div>	<div>FARGO APP CON★</div> <div>120.4 377.15</div>	<div>FARGO TOWER</div> <div>133.8 290.4</div>	<div>GND CON</div> <div>121.9 348.6</div>	<div>CLNC DEL</div> <div>121.9 348.6</div>
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4 NM Holding Pattern

IDVIY

3500

266°

086°

EFIQU

2600

086°

1.4 NM to RW09

RW09

3.05°

TCH 45

6.5 NM

3.7 NM

1.4

3500

IJKOM

ELEV 902

D

086° to RW09

TDZE 900

6300 X 100

81

AS

4

27

AS

1023

36

1006

9000 X 150

3800

X 150

AS

3

CATEGORY	A	B	C	D
LNAV MDA	1360-1	460 (500-1)	1360-1½ 460 (500-1½)	1360-1½ 460 (500-1½)
CIRCLING	1380-1	478 (500-1)	1380-1½ 478 (500-1½)	1500-2 598 (600-2)

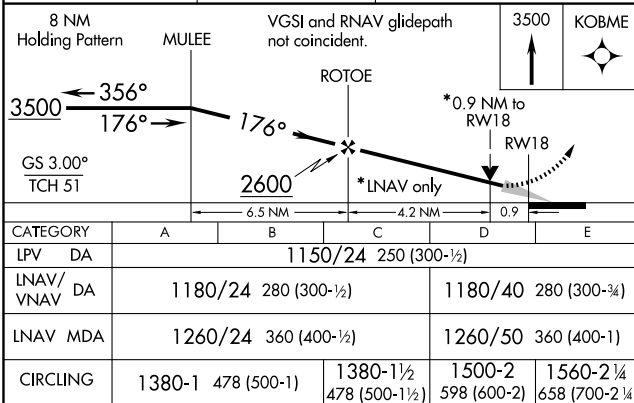
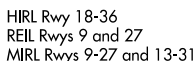
HIRL Rwy 18-36

REIL Rwy 9 and 27

MIRL Rwy 9-27 and 13-31

MISSED APPROACH: Climb to 3500
direct KOBME and hold.

CLNC DEL
121.9 348.6



APP CRS	Rwy Idg	6300
267°	TDZE	898
	Apt Elev	902

RNAV (GPS) RWY 27

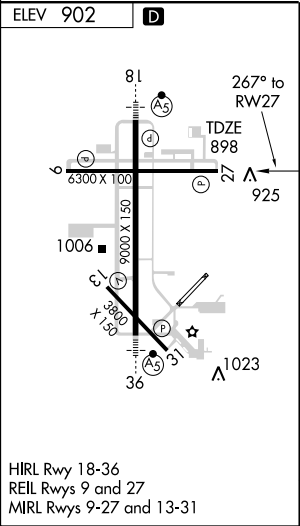
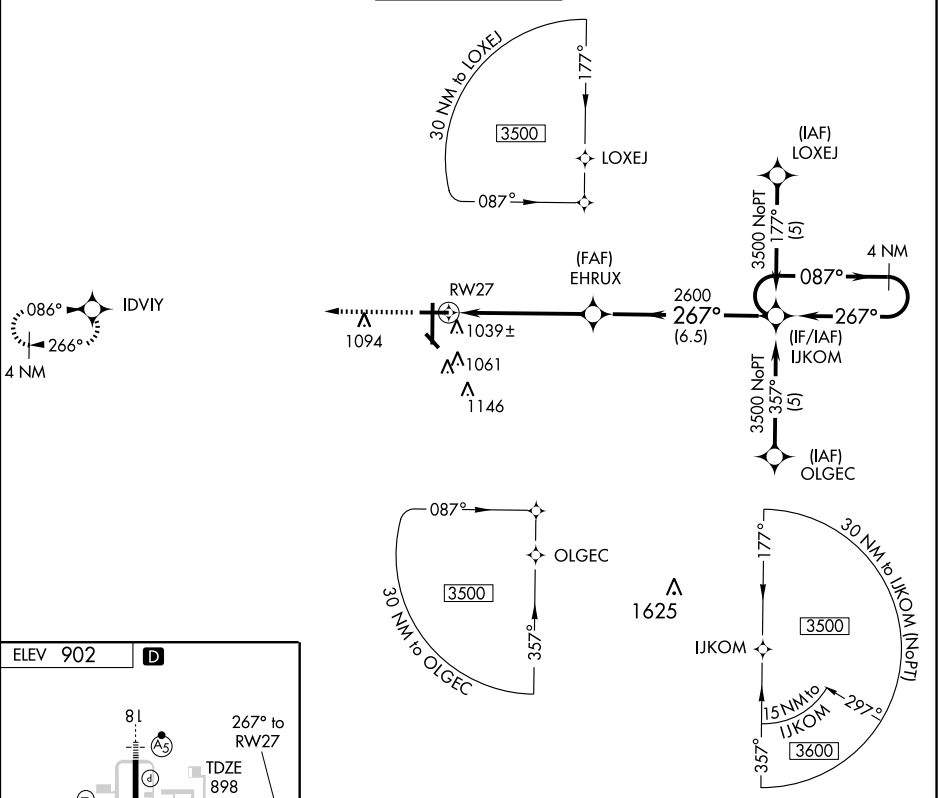
FARGO/HECTOR INTL (FAR)




DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3500 direct IDVIY and hold.

ATIS 124.5 379.2	FARGO APP CON★ 120.4 377.15	FARGO TOWER 133.8 290.4	GND CON 121.9 348.6	CLNC DEL 121.9 348.6
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3500 ↑	IDVIY 	IJKOM 4 NM Holding Pattern			

WAAS	APP CRS	Rwy Idg	9000
CH 50106	356°	TDZE	899
W36A		Apt Elev	902

▼

▲

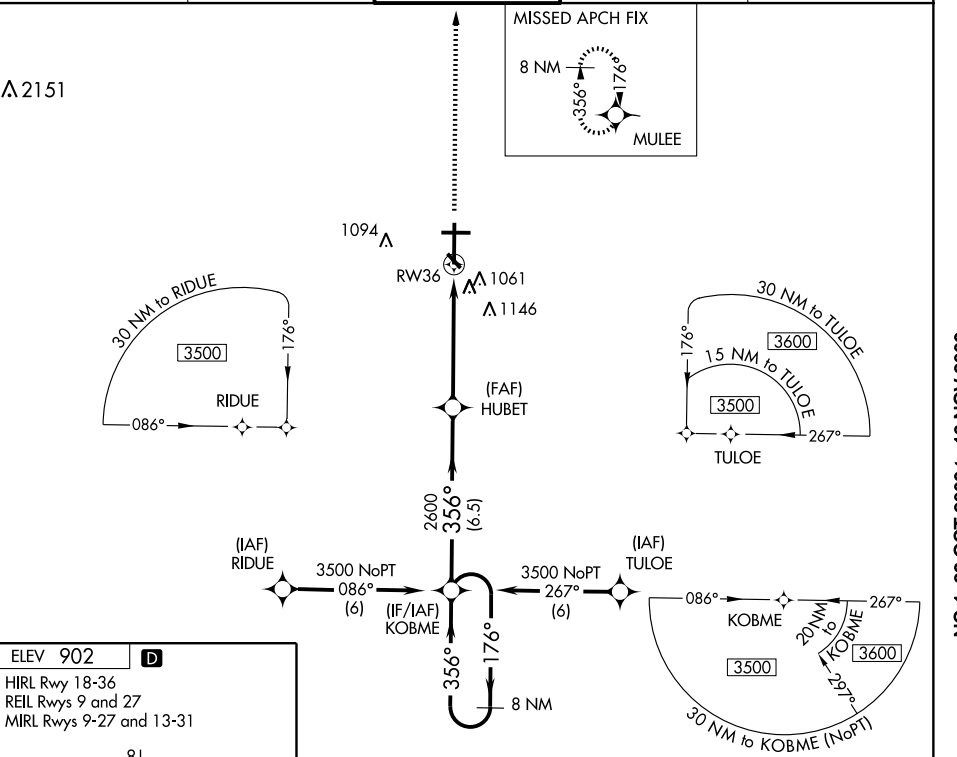
W

DME/DME RNP -0.3 NA.
Baro-VNAV NA below -16°C (4°F).
For inoperative MALS, increase LPV Cat E visibility to RVR 4000,
and increase LNAV/VNAV and LNAV Cat E visibility to 1¾ mile.

MALS

MISSED APPROACH: Climb to 3500 direct MULEE and hold.

ATIS	FARGO APP CON★	FARGO TOWER	GND CON	CLNC DEL
124.5 379.2	120.4 377.15	133.8 290.4	121.9 348.6	121.9 348.6



ELEV 902

D

HIRL Rwy 18-36
REIL Rwys 9 and 27
MIRL Rwys 9-27 and 13-31

TDZE 899

36° to RW36

8 NM Holding Pattern		KOBME		VGS and RNAV glidepath not coincident.		3500	MULEE
3500		←176°		→356°		356°	
GS 3.00°		TCH 55		2600		*1.4 NM to RW36	
				6.5 NM		3.7 NM	
						1.4 NM	
CATEGORY		A		B		C	
LPV DA						1150/24 251 (300-½)	
LNAV/VNAV DA						1360/50 461 (500-1)	
LNAV MDA		1420/24 521 (600-½)		1420/50 521 (600-1)		1420/60 521 (600-1¼)	
CIRCLING		1420-1½ 518 (600-1½)				1500-2 598 (600-2)	
						1560-2¼ 658 (700-2¼)	

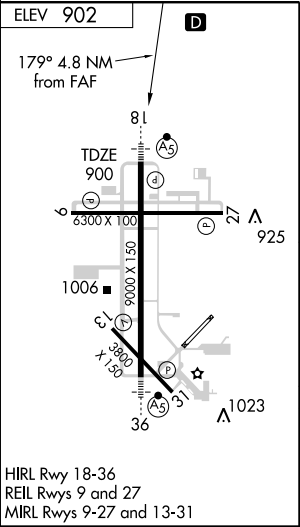
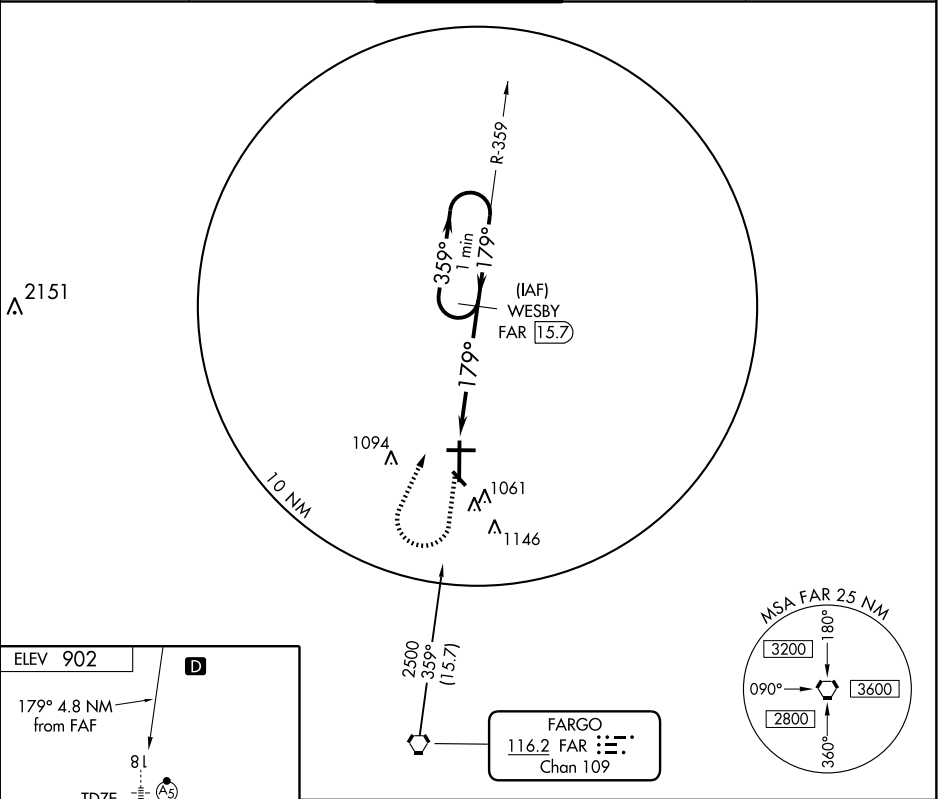
VORTAC FAR	APP CRS	Rwy Idg	9000
116.2	179°	TDZE	900
Chan 109		Apt Elev	902

VOR/DME or TACAN RWY 18

FARGO/HECTOR INTL (FAR)

<p>⚠ For inoperative MALSR, increase Cat D visibility to RVR 6000 and Cat E to 1½.</p>	<p>MALSR</p> 	<p>MISSED APPROACH: Climb to 3500 then right turn via heading 016° and FAR R-359 to WESBY/15.7 DME and hold.</p>
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ATIS 124.5 379.2	FARGO APP CON★ 120.4 377.15	FARGO TOWER 133.8 290.4	GND CON 121.9 348.6	CLNC DEL 121.9 348.6
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3500	016°	FAR R-359 116.2	WESBY FAR 15.7	WESBY FAR 15.7	One Minute Holding Pattern
3500	016°	FAR 12	179°	359° 2500	179°
1.1	3.7 NM	3.00° TCH 68			
CATEGORY	A	B	C	D	E
S-18	1320/24	420 (500-½)	1320/40 420 (500-¾)	1320/50	420 (500-1)
CIRCLING	1380-1	478 (500-1)	1380-1½ 478 (500-1½)	1500-2 598 (600-2)	1560-2¼ 658 (700-2¼)

VORTAC FAR 116.2 Chan 109	APP CRS 360°	Rwy Idg 9000 TDZE 899 Apt Elev 902
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VOR or TACAN RWY 36

FARGO/HECTOR INTL (FAR)

T VOR MINIMUMS: For inoperative MALSR, increase S-36 Cat E visibility to 2½ miles.
A STABS FIX MINIMUMS: For inoperative MALSR, increase S-36 Cat E visibility to 1¾ mile.

MALS^R

MISSED APPROACH: Climbing left turn to 3500 direct FAR VORTAC and hold. (TACAN aircraft climbing left turn to 3500 direct FAR VORTAC, then via FAR R-180 to KINNO/FAR 10 DME and hold South, right turns, 360° inbound.)

ATIS
124.5 379.2

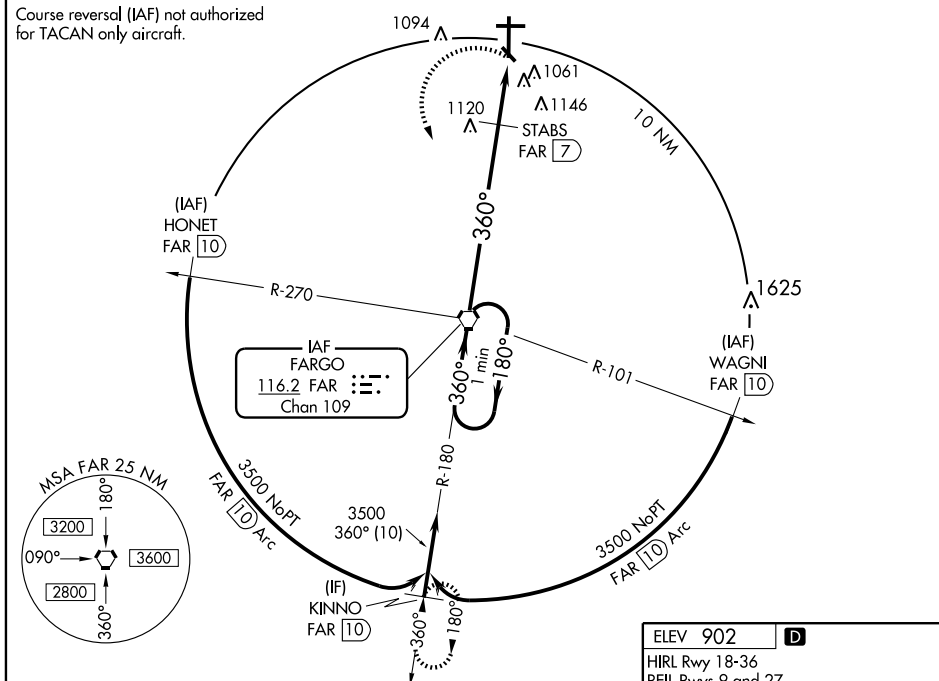
FARGO APP CON★
120.4 377.15

FARGO TOWER	
133.8	290.4

GND CON
121.9 348.6

CLNC DEL
121.9 348.6

Course reversal (IAF) not authorized
for TACAN only aircraft.



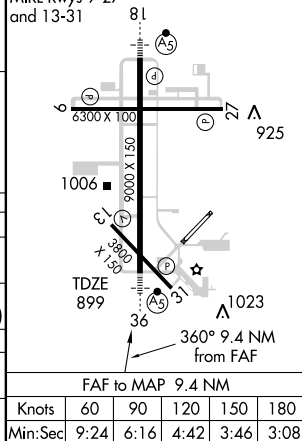
One Minute Holding Pattern

VORTAC

STABS
FAR []

HIRE REVIEW 18-

HIRL Rwy 18-36	
REIL Rwy 9 and 27	
MIRL Rwy 9-27	
and 13-31	81



		7 NM		1.1 NM	1.3 NM	
CATEGORY	A	B	C	D	E	
S-36	1600/24	701 (700-½)	1600-1½ 701 (700-½)	1600-1¾ 701 (700-¾)	1600-2 701 (700-2)	
CIRCLING	1600-1	698 (700-1)	1600-2 698 (700-2)	1600-2¼ 698 (700-2¼)	1600-2½ 698 (700-2½)	
STABS FIX MINIMUMS						
S-36	1380/24	481 (500-½)	1380/40 481 (500-¾)	1380/50 481 (500-1)	1380/60 481 (500-1¼)	
CIRCLING	1380-1	478 (500-1)	1380-1½ 478 (500-1½)	1500-2 598 (600-2)	1560-2½ 658 (700-2¼)	

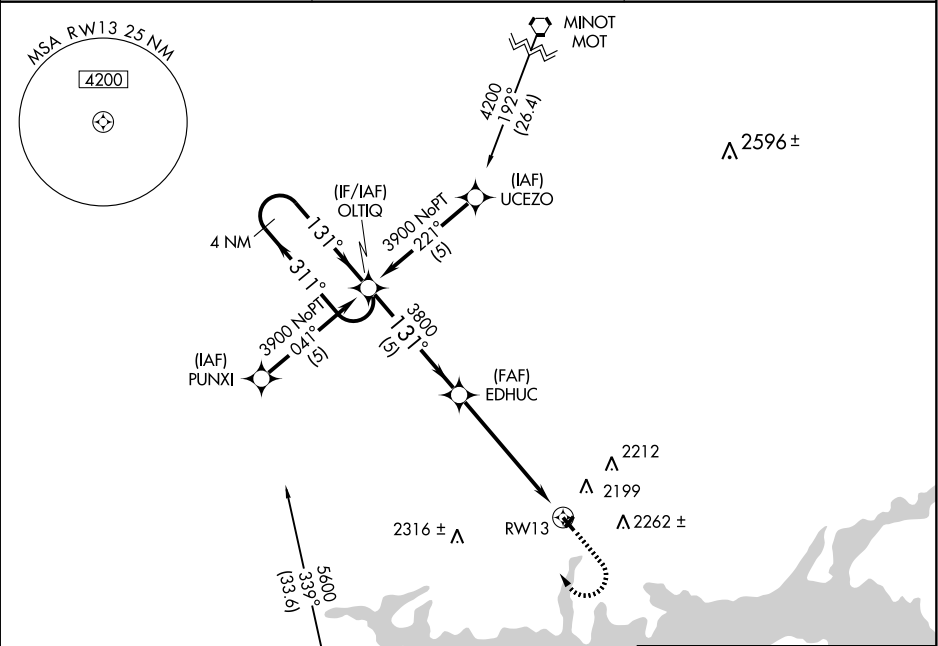
RNAV (GPS) RWY 13

GARRISON MUNI (D05)

APP CRS	Rwy Idg	3700
131°	TDZE	1935
	Apt Elev	1935

NA	DME/DME RNP 0.3- NA. Use Minot Intl altimeter setting.	MISSED APPROACH: Climb to 2500 then climbing right turn to 3900 direct OLTIQ WP and hold.
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MINOT ASOS 118.725	MINNEAPOLIS CENTER 127.6 279.6	CTAF 122.9 U
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ELEV 1935

131° to RW13

TDZE 1935

131°

13

2000 x 120

3700 x 60

3

31

4 NM Holding Pattern	OLTIQ	EDHUC	RW13	
3900	311°	131°	131°	
3800	3.00° TCH 40	5.7 NM		
CATEGORY	A	B	C	D
GLS DA	NA			
LNAV/VNAV DA	NA			
LNAV MDA	2500-1 565 (600-1)		NA	
CIRCLING	2680-1 745 (800-1)	2680-1¼ 745 (800-1¼)	NA	

LIRL Rwy 13-31 **U**

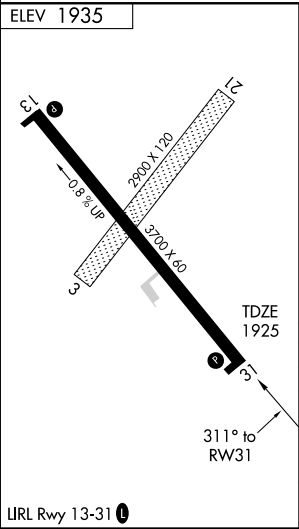
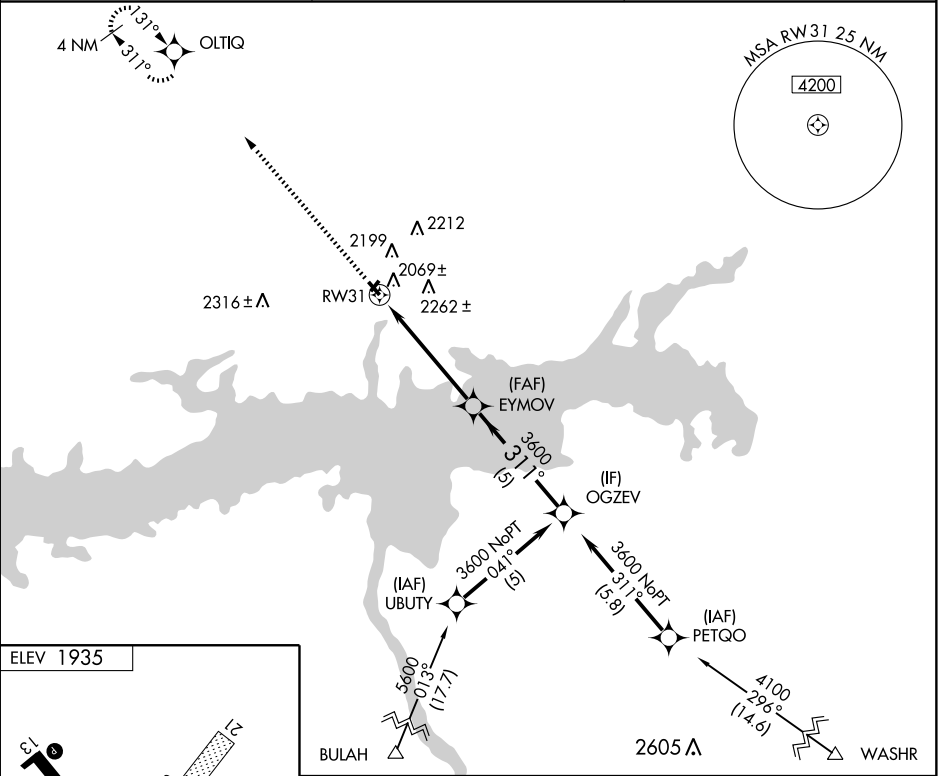
APP CRS	Rwy Idg	3700
311°	TDZE	1925
	Apt Elev	1935



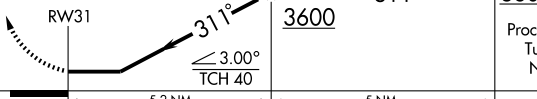
RNAV (GPS) RWY 31

GARRISON MUNI (D05)

NA	DME/DME RNP- 0.3 NA. Use Minot Inlt altimeter setting.	MISSED APPROACH: Climb to 3900 direct OLTIQ and hold.
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MINOT ASOS 118.725	MINNEAPOLIS CENTER 127.6 279.6	CTAF 122.9 0
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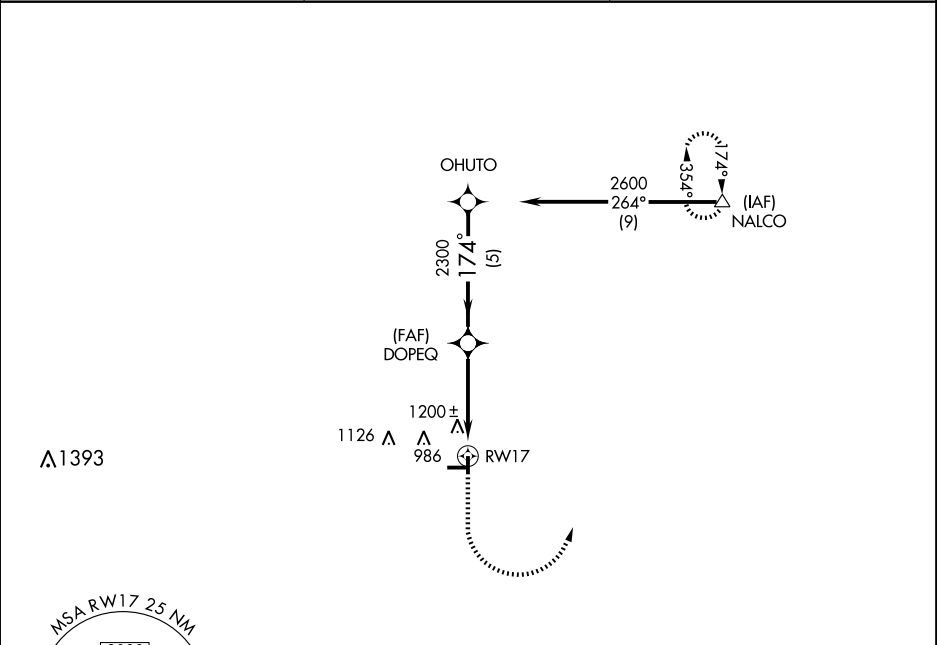
3900	OLTIQ	EYMOV	OGZEV	
				
				
CATEGORY	A	B	C	D
GLS DA	NA			
LNAV/ VNAV DA	NA			
LNAV MDA	2560-1 635 (700-1)		NA	
CIRCLING	2680-1 745 (800-1)	2680-1¼ 745 (800-1¼)	NA	

APP CRS 174°	Rwy Idg TDZE Apt Elev	3898 821 824
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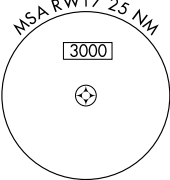
GPS RWY 17
GRAFTON/ HUTSON FIELD (GAF')

<div>▽ NA</div>	Use Grand Forks Intl altimeter setting.	MISSED APPROACH: Climb to 1800, then climbing left turn to 2600 direct NALCO WP and hold.
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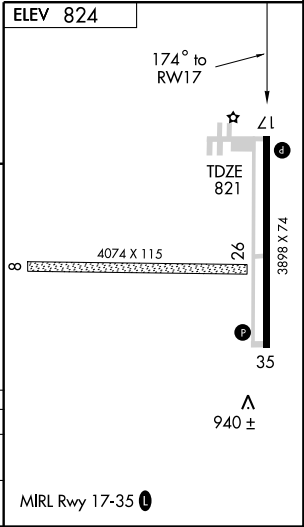
AWOS-3 118.625	GRAND FORKS APP CON 118.1 318.1	UNICOM 122.8 (CTAF) 0
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Δ1393



1800	2600	NALCO				
↑	↖	△				
Procedure Turn NA						
CATEGORY	A		B		C	D
S-17	1520-1		699 (700-1)		1520-2 699 (700-2)	NA
CIRCLING	1580-1 756 (800-1)		1580-1¼ 756 (800-1¼)		1580-2¼ 756 (800-2¼)	NA



GPS RWY 35

GRAFTON/ HUTSON FIELD (GAF)

APP CRS	Rwy Idg	3898
354°	TDZE	820
	Apt Elev	824

▽

NA

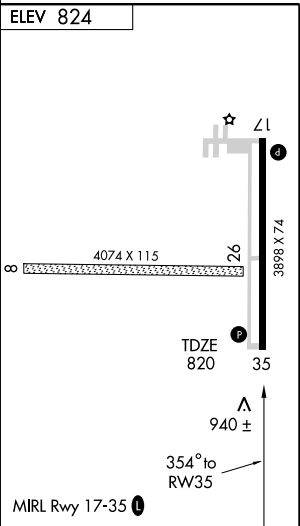
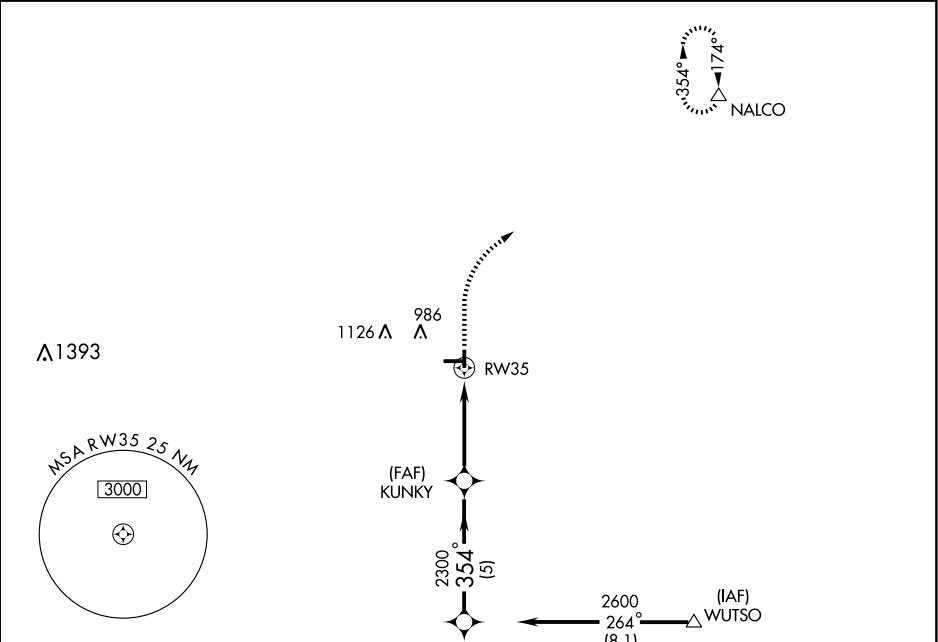
Use Grand Forks Intl altimeter setting.

MISSED APPROACH: Climb to 1800, then climbing right turn to 2600 direct NALCO WP and hold.

AWOS-3
118.625

GRAND FORKS APP CON
118.1 318.1

UNICOM
122.8 (CTAF) 0

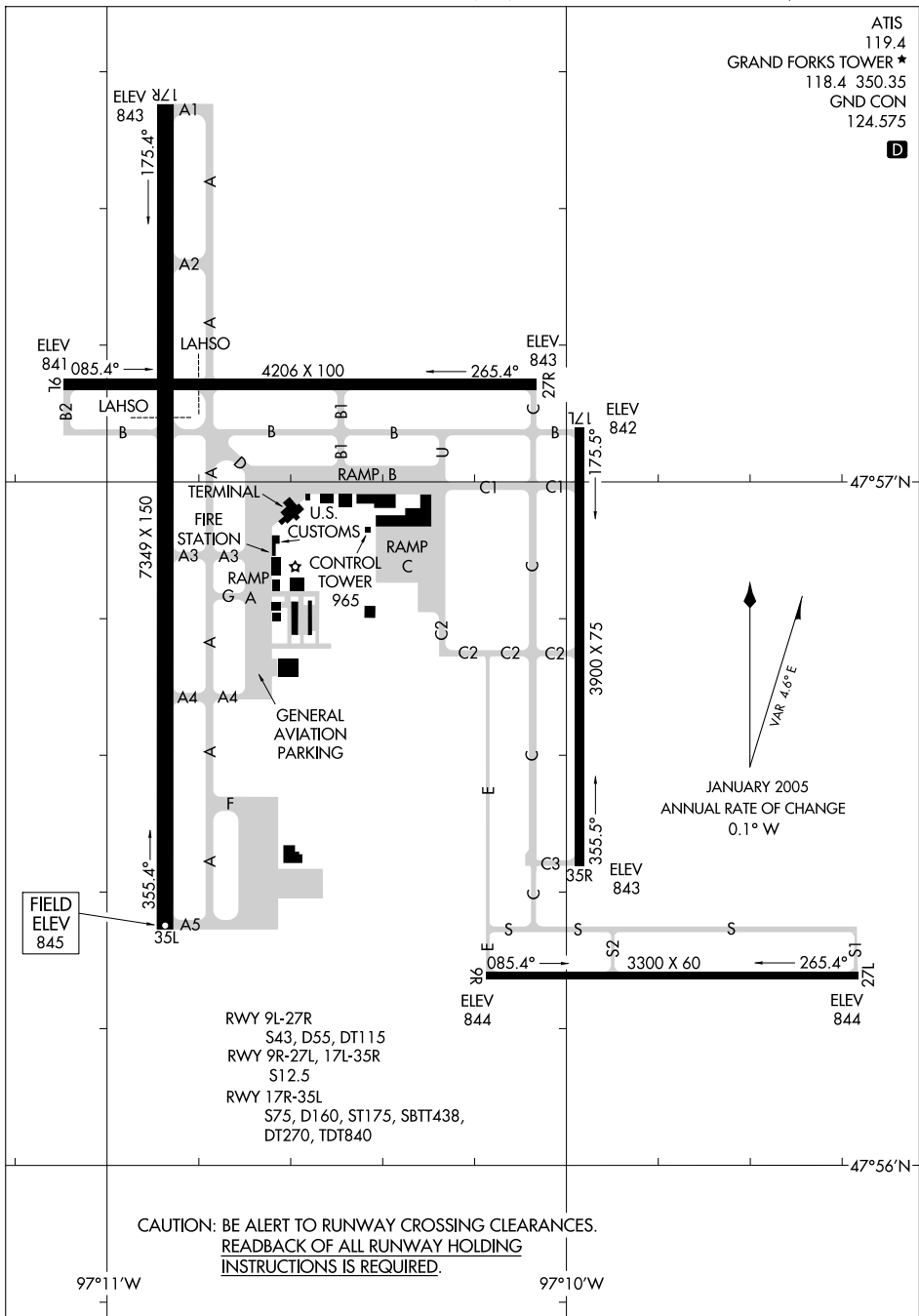


	NANOH		KUNKY		RW35	
	2600		2300		1800	
	Procedure Turn NA		5 NM		4 NM	
CATEGORY	A	B	C	D		
S-35	1260-1	440 (500-1)	1260-1 ¼ 440 (500-1 ¼)	NA		
CIRCLING	1580-1 756 (800-1)	1580-1 ¼ 756 (800-1 ¼)	1580-2 ¼ 756 (800-2 ¼)	NA		

AIRPORT DIAGRAM

AL-5187 (FAA)

GRAND FORKS INTL (GFK)
GRAND FORKS, NORTH DAKOTA



NC-1, 22 OCT 2009 to 19 NOV 2009

LOC/DME I-GFK	APP CRS	Rwy Idg	7349
109.1	354°	TDZE	845
Chan 28		Apt Elev	845

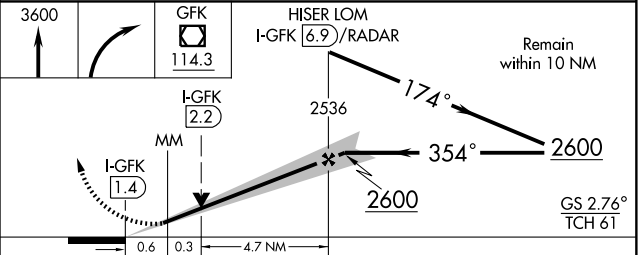
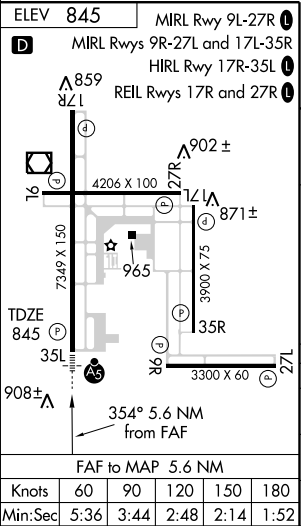
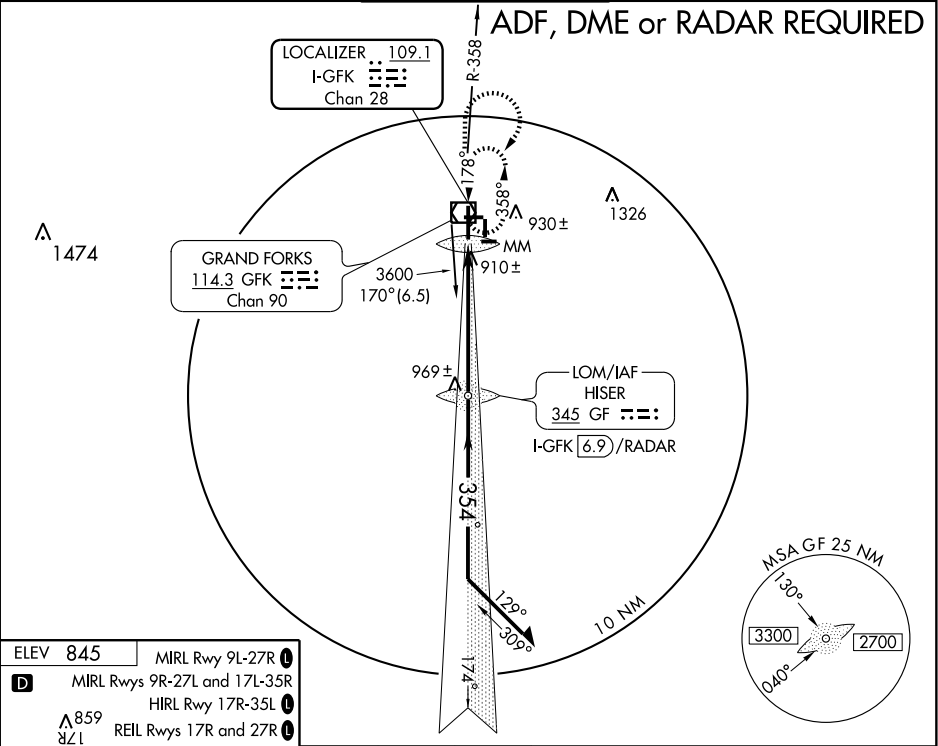
ILS or LOC RWY 35L
GRAND FORKS INTL (GFK)

▲ If local altimeter setting not received, use Crookston altimeter setting and increase all DAs/MDAs 80 feet. Procedure turn NA for Cat. E aircraft. VDP NA with Crookston altimeter setting.
For inoperative MALS, increase S-ILS Cat. E visibility to 1.

MALS

MISSED APPROACH:
Climb to 3600 then right turn direct GFK VOR/DME and hold.

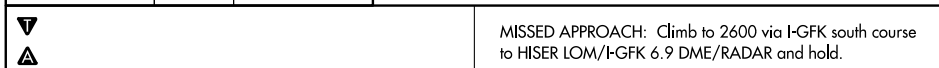
ATIS 119.4	GRAND FORKS APP CON 118.1 318.1	GRAND FORKS TOWER* 118.4 (CTAF) 350.35	GND CON 124.575	UNICOM 122.95
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CATEGORY	A	B	C	D	E
S-ILS 35L	1045-½ 200 (200-½)				
S-LOC 35L	1160-½ 315 (400-½)			1160-¾ 315 (400-¾)	
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1¼ 455 (500-1¼)	1400-2 555 (600-2)	1520-2½ 675 (700-2½)

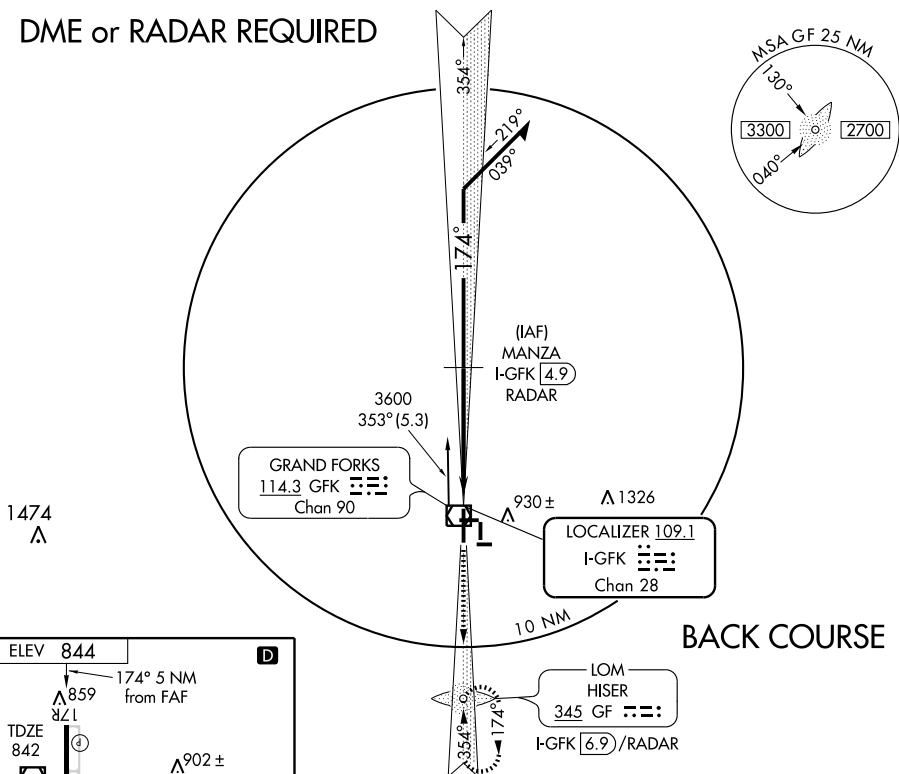
LOC/DME I-GFK 109.1 Chan 28	APP CRS 174°	Rwy Idg 7349 TDZE 842 Apt Elev 844
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LOC BC RWY 17R
GRAND FORKS INTL (GFK)

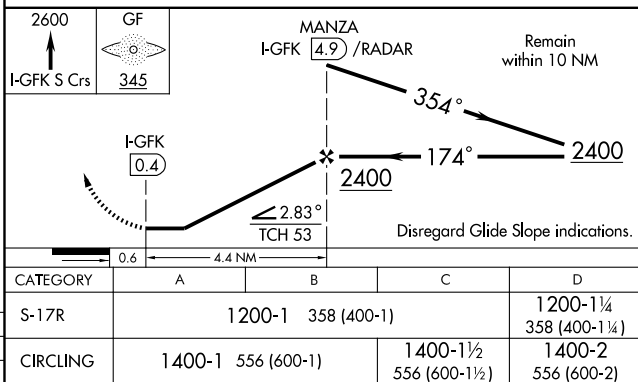
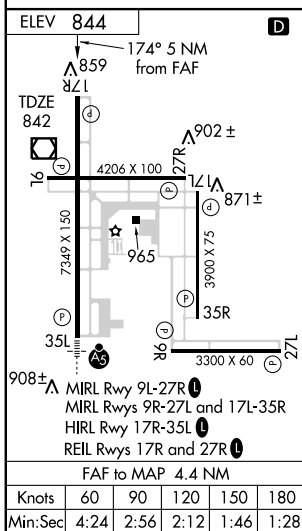


ATIS 119.4	GRAND FORKS APP CON 118.1 318.1	GRAND FORKS TOWER★ 118.4 (CTAF) 0 350.35	GND CON 124.575	UNICOM 122.95
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DME or RADAR REQUIRED



BACK COURSE

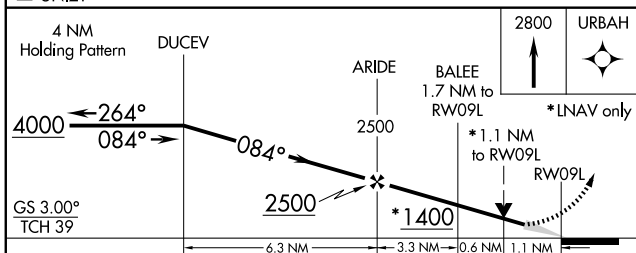
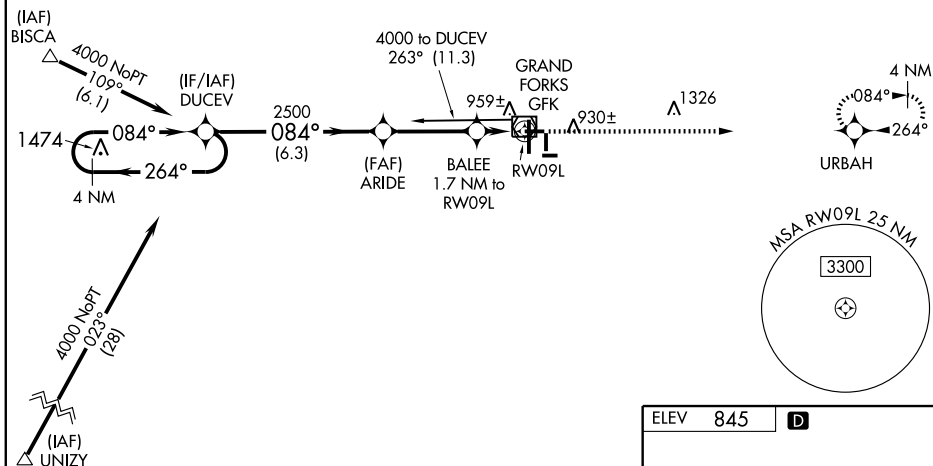


RNAV (GPS) RWY 9L
GRAND FORKS INTL (GFK)

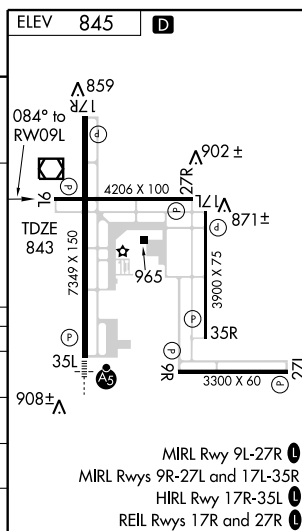
MISSED APPROACH: Climb to 2800 direct
URBAH and hold.

ATIS	GRAND FORKS APP CON	GRAND FORKS TOWER★	GND CON	UNICOM
119.4	118.1 318.1	118.4 (CTAF) 0 350.35	124.575	122.95

Procedure NA for arrivals
at GFK VOR/DME
via V55 northeast bound.



CATEGORY	A	B	C	D
LPV DA	1093-1 250 (300-1)			
LNAV/VNAV DA	1238-1½ 395 (400-1½)			
LNAV MDA	1220-1 377 (400-1)			1220-1¼ 377 (400-1¼)
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1½ 455 (500-1½)	1400-2 555 (600-2)



▼

DME/DME RNP -0.3 NA.

▲

If local altimeter setting not received use Crookston altimeter setting and increase all DAs /MDAs 80 feet.

Baro-VNAV NA with Crookston altimeter setting.

VDP NA with Crookston altimeter setting.

Baro-VNAV NA below -16°C (5°F).

MISSED APPROACH: Climb to 2600 direct ERIXE and hold.

ATIS 119.4	GRAND FORKS APP CON 118.1 318.1	GRAND FORKS TOWER ★ 118.4 (CTAF) 0 350.35	GND CON 124.575	UNICOM 122.95
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Procedure NA for arrivals at EYWUS via V171 northeast bound, and arrivals at WUTSO via V181 northbound.

MISSED APCH FIX

5 NM Holding Pattern FODIB

CATEGORY	A	B	C	D
LPV DA	1093-¾	250 (300-¾)		
LNAV/VNAV DA	1153-1	310 (400-1)		
LNAV MDA	1180-1	337 (400-1)		
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1½ 455 (500-1½)	1400-2 555 (600-2)

ELEV 845

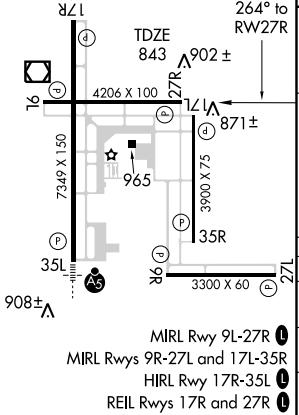
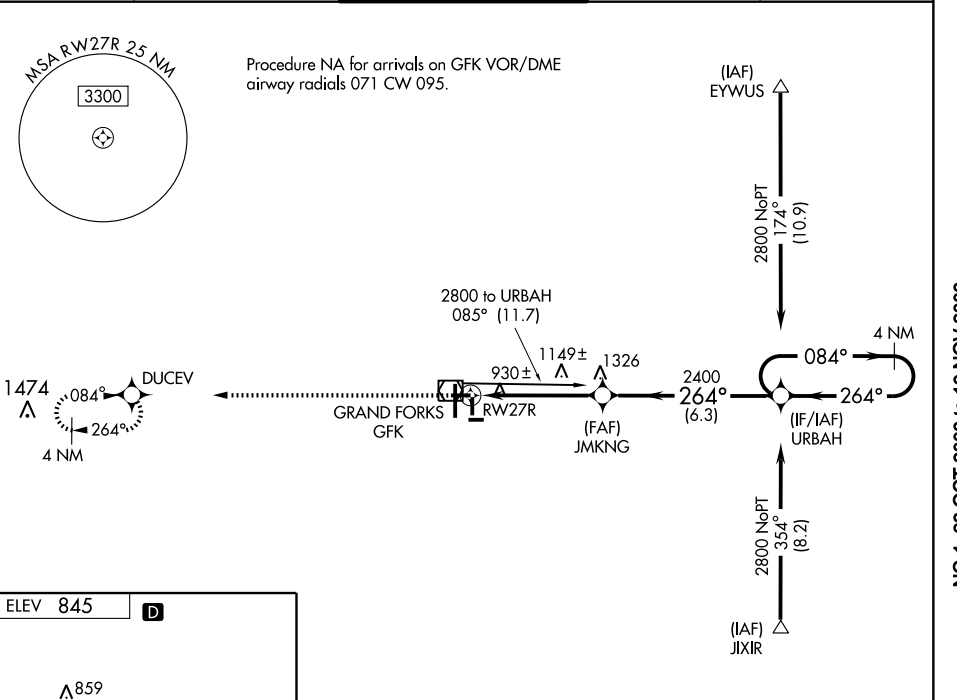
NC-1: 22 OCT 2009 to 19 NOV 2009

WAAS CH 78104 W27A	APP CRS 264°	Rwy Idg TDZE Apt Elev	4206 843 845
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⚠ DME/DME RNP-0.3 NA.
⚠ Visibility reduction by helicopters NA.
When local altimeter setting not received, use Crookston altimeter setting and increase all DA 62 feet and all MDA 80 feet.
Increase LNAV and Circling Cat C and D visibility ¼ mile.

MISSED APPROACH: Climb to 4000 direct DUCEV and hold, continue climb-in-hold to 4000.

ATIS 119.4	GRAND FORKS APP CON 118.1 318.1	GRAND FORKS TOWER★ 118.4 (CTAF) 350.35	GND CON 124.575	UNICOM 122.95
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ELEV 845		DUCEV		4000	
RWY 27R		JMKNG		URBAH	
2400		2400		2800	
4.7 NM		6.3 NM		4 NM	
CATEGORY		A		B	
LPV DA		1093-1		250 (300-1)	
LNAV MDA		1460-1 617 (700-1)		1460-1 617 (700-1)	
CIRCLING		1460-1 615 (700-1)		1460-2 615 (700-2)	

NC-1, 22 OCT 2009 to 19 NOV 2009

WAAS

CH 70313

W35A

APP CRS

354°

Rwy Idg

TDZE

Apt Elev

7349

845

845

✚

DME/DME RNP -0.3 NA. Inoperative table does not apply to LNAV Cat D.

⚠

If local altimeter setting not received, use Crookston altimeter setting and increase all DAs/MDAs 80 feet.

VDP NA when using Crookston altimeter setting. Baro-VNAV NA below -1.6°C (4°F).

Baro-VNAV NA when using Crookston altimeter setting.

For inoperative MALSR increase LPV all Cats visibility to 1.

MALSR

MISSED APPROACH: Climb to 2600 direct FODIB and hold.

ATIS 119.4	GRAND FORKS APP CON 118.1 318.1	GRAND FORKS TOWER ★ 118.4 (CTAF) 0 350.35	GND CON 124.575	UNICOM 122.95
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Procedure NA for arrivals at GFK VOR/DME via airway radials 112 CW 234.

MISSED APCH FIX

ELEV 845	MIRL Rwy 9L-27R
	MIRL Rwys 9R-27L and 17L-35R
	HIRL Rwy 17R-35L
	REIL Rwys 17R and 27R

CATEGORY	A	B	C	D
LPV DA	1095-1/2 250 (300-1/2)			
LNAV/VNAV DA	1174-1/2 329 (400-1/2)			1174-3/4 329 (400-3/4)
LNAV MDA	1180-1/2 335 (400-1/2)			1180-1 335 (400-1)
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1 1/2 455 (500-1 1/2)	1400-2 555 (600-2)

NC-1, 22 OCT 2009 to 19 NOV 2009

VOR/DME GFK 114.3 Chan 90	APP CRS 183°	Rwy Idg 7349 TDZE 843 Apt Elev 845
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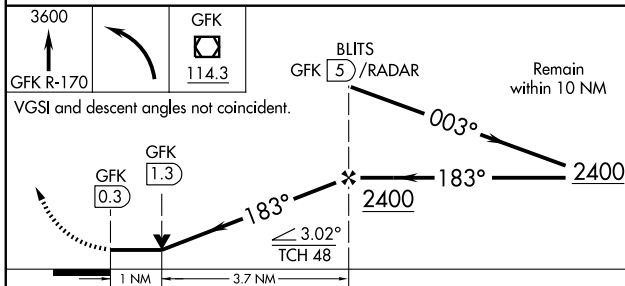
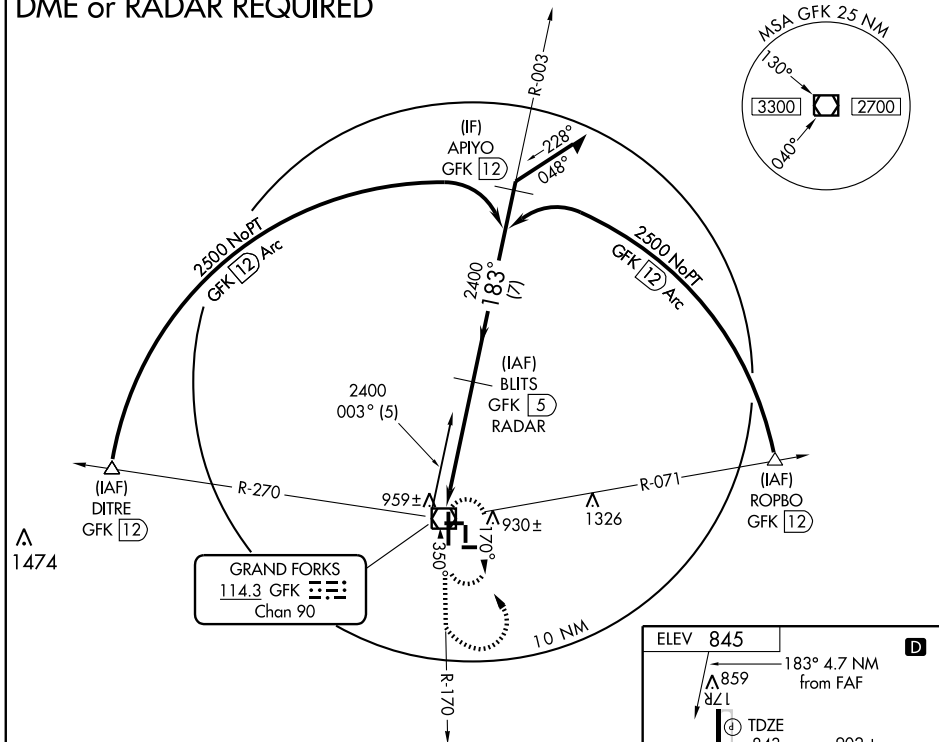
VOR RWY 17R
GRAND FORKS INTL (GFK)

T If local altimeter setting not received, use Crookston altimeter setting and increase all MDAs 80 feet.
A VDP NA with Crookston altimeter setting.

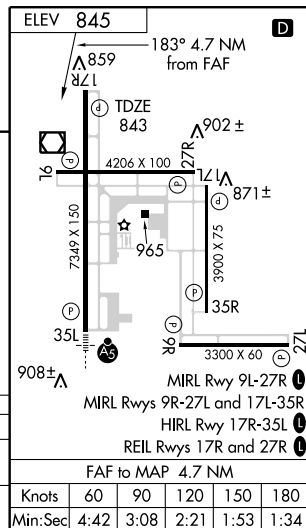
MISSED APPROACH: Climb to 3600 via GFK R-170 then left turn direct GFK VOR/DME and hold.

ATIS	GRAND FORKS APP CON	GRAND FORKS TOWER★	GND CON	UNICOM
119.4	118.1 318.1	118.4 (CTAF) 350.35	124.575	122.95

DME or RADAR REQUIRED



CATEGORY	A	B	C	D
S-17R	1220-1 377 (400-1)			1220-1¼ 377 (400-1¼)
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1½ 455 (500-1½)	1400-2 555 (600-2)



VOR/DME GFK <u>114.3</u> Chan 90	APP CRS 344°	Rwy Idg 7349 TDZE 845 Apt Elev 845
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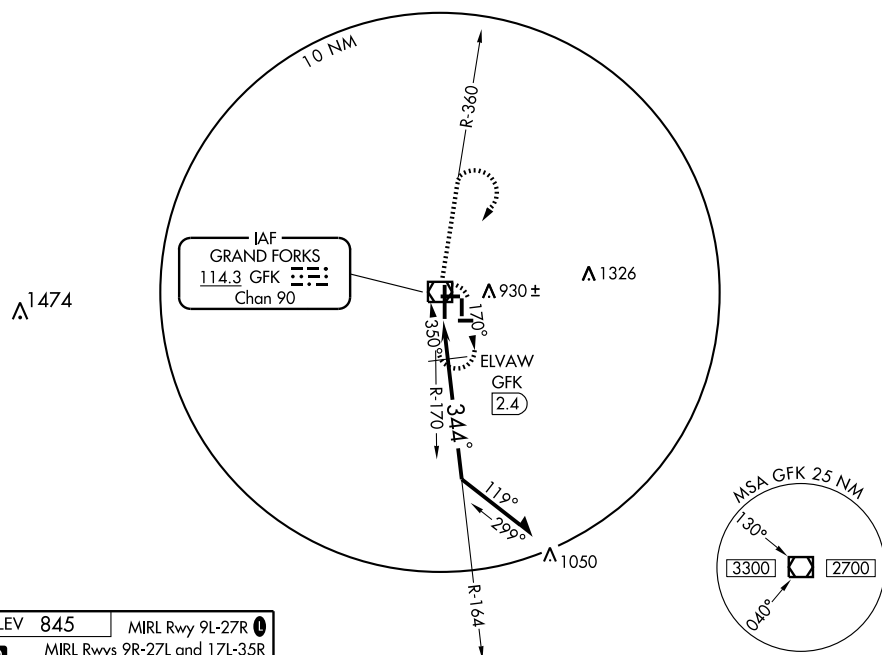
VOR RWY 35L
GRAND FORKS INTL (GFK)

T If local altimeter setting not received use Crookston altimeter setting and increase, all MDAs 80 feet.
A ELVAW FIX MINIMUMS: For inoperative MALSR, increase S-35L, Cat D visibility to 1 ¼ mile.

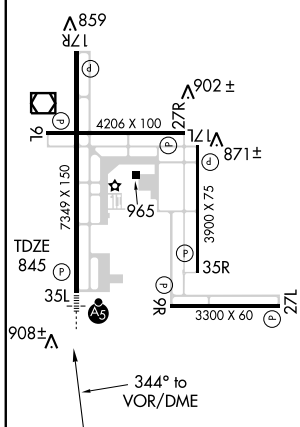
MALSR





MISSED APPROACH: Climb to 1300 then climb to 3600 via GFK R-360 then right turn direct GFK VOR/DME and hold.

ATIS 119.4	GRAND FORKS APP CON 118.1 318.1	GRAND FORKS TOWER★ 118.4 (CTAF) 350.35	GND CON 124.575	UNICOM 122.95
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ELEV 845	MIRL Rwy 9L-27R L
D	MIRL Rwys 9R-27L and 17L-35R HIRL Rwy 17R-35L L REIL Rwys 17R and 27R L



1300	3600		GFK
	 GFK R-360		 <u>114.3</u>

VGSI and descent angles
not coincident

*1440 when using Crookston altimeter setting.

VOR/DME

164°

ELVAW GFK (2.4)

301°

TCH 55

344°

1360*

2500

Remain within 10 NM

1.0 1.4 NM

CATEGORY	A	B	C	D
S-35L	1360-½	515 (600-½)	1360-1 515 (600-1)	1360-1¼ 515 (600-1¼)
CIRCLING	1360-1	515 (600-1)	1360-1½ 515 (600-1½)	1400-2 555 (600-2)

ELVAW FIX MINIMUMS

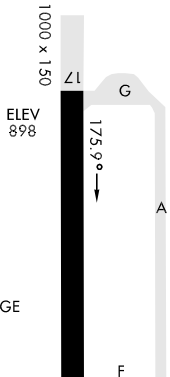
S-35L	1220-1/2 375 (400-1/2)			1220-1 375 (400-1)
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1 1/4 455 (500-1 1/4)	1400-2 555 (600-2)

ATIS ★
273.45
RED RIVER TOWER
124.9 349.0
GND CON
119.15 275.8
CLNC DEL
119.15 360.7

47°59'N



AUGUST 2009
ANNUAL RATE OF CHANGE
0.1° W



12,351 x 150

1014
A

47°58'N

HOT CARGO

CONTROL TOWER

ELEV 900

TANKS

47°57'N

A 1053

FIELD
ELEV 913

0.6556
051 x 0001

ELEV 900
FIRE STATION

BASE OPS

TANKS

Rwy 17-35
PCN 139 R/A/W/T

97°25'W

97°24'W

97°23'W

NC-1, 22 OCT 2009 to 19 NOV 2009

LOC I-AVA <u>111.3</u>	APCH CRS 174°	Rwy Idg 12,351 TDZE 902 Arpt Elev 913	JAL-5010 [USAF]	GRAND FORKS AFB (KRDR)
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* When ALS inop, increase CAT CDE RVR to 40 and vis to ¾ mile.

** When ALS inop, increase CAT CD RVR to 50 and vis to 1 mile, CAT E RVR to 60 and vis to 1¼ mile.

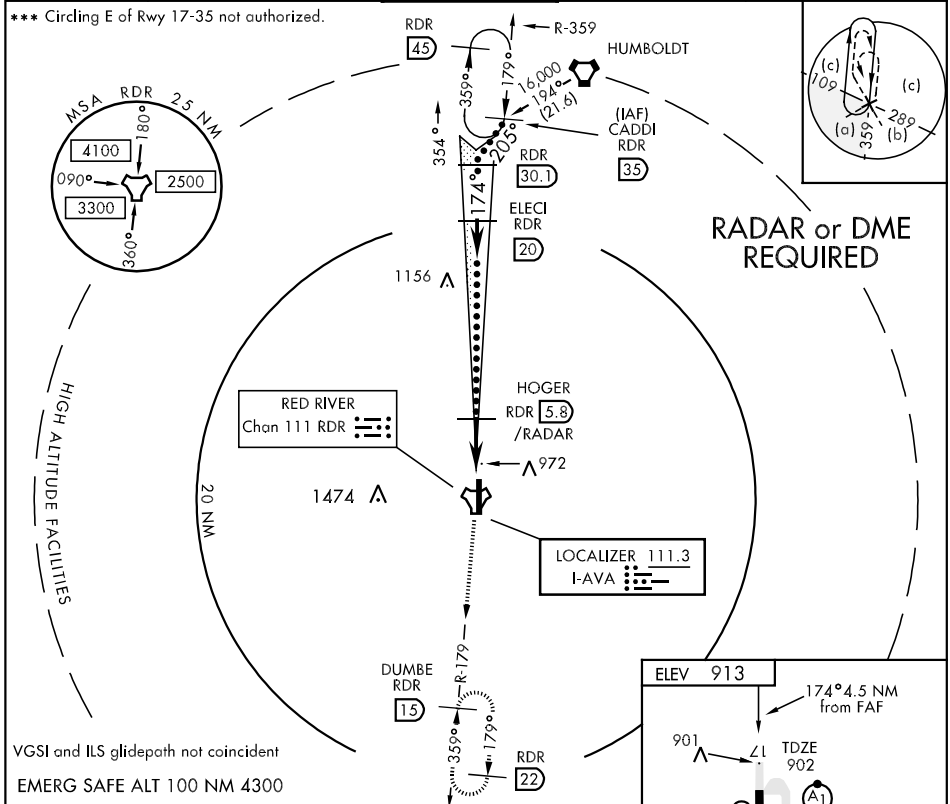
ALSF-1



MISSED APPROACH: Climb to 3000 on RDR
TACAN R-179 to DUMBE and hold.

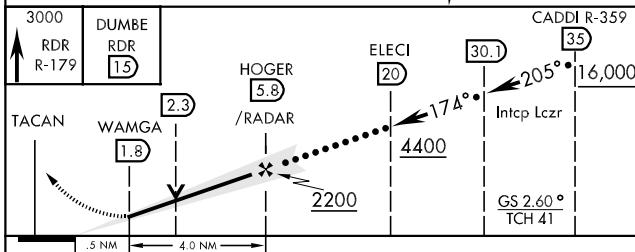
ATIS ★ 273.45	GRAND FORKS APP CON 118.1 318.1	RED RIVER TOWER 124.9 349.0	GND CON 119.15 275.8	CLNC DEL 119.15 360.7
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*** Circling E of Rwy 17-35 not authorized.

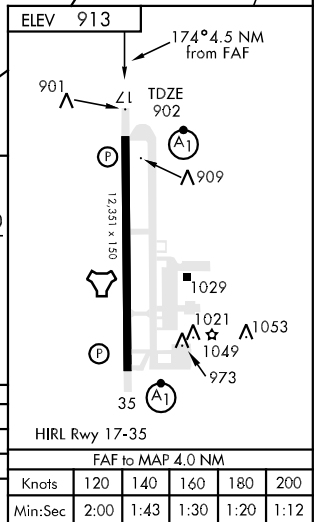


VGSI and ILS glidepath not coincident

EMERG SAFE ALT 100 NM 4300



CATEGORY	C	D	E
S-1LS 17 *	1102/24	200	(200-½)
S-LOC 17 **	1240/40	338	(400-¾)
CIRCLING ***	1380-1½ 467 (500-1½)	1480-2 567 (600-2)	2040-3 1127 (1200-3)



TACAN RDR Chan 111	APCH CRS 179°	Rwy Idg 12,351 TDZE 902 Arprt Elev 913
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JAL-5010 [USAF]

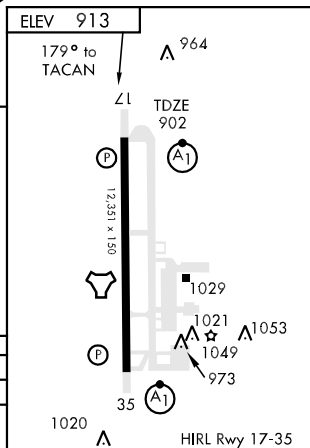
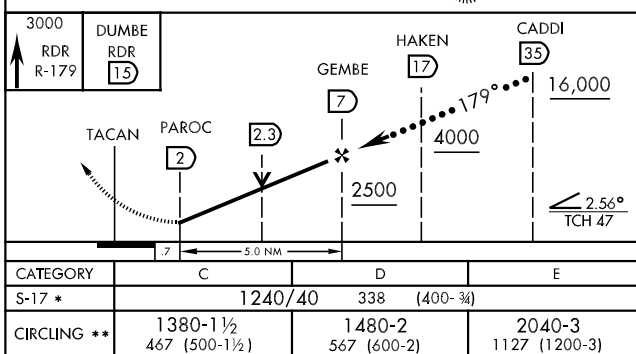
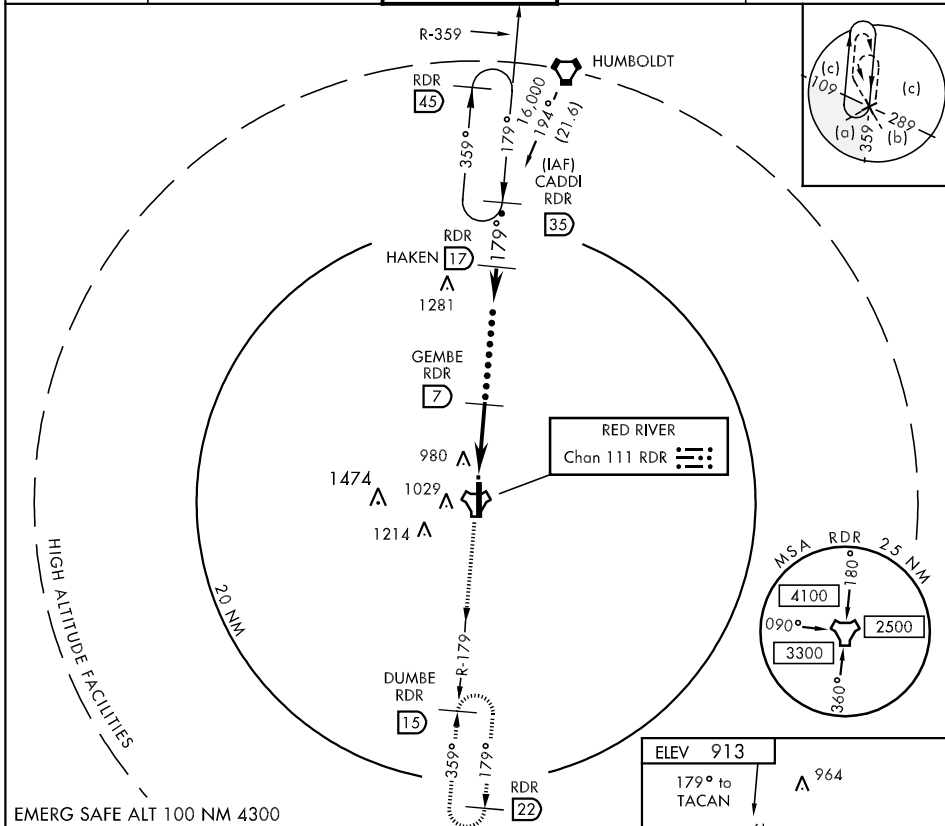
GRAND FORKS AFB (KRDR)

* When ALS inop, increase CAT CD RVR to 50 and vis to 1 mile, CAT E RVR to 60 and vis to 1½ mile.
 ** Circling E of Rwy 17-35 not authorized.



MISSED APPROACH: Climb to 3000 on RDR TACAN R-179 to DUMBE and hold.

ATIS ★ 273.45	GRAND FORKS APP CON 118.1 318.1	RED RIVER TOWER 124.9 349.0	GND CON 119.15 275.8	CLNC DEL 119.15 360.7
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TACAN RDR Chan 111	APCH CRS 348°	Rwy Idg 12,351 TDZE 913 Arprt Elev 913
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JAL-5010 [USAF]

GRAND FORKS AFB (KRDR)

- * When ALS inop, increase CAT CD RVR to 60 and vis to 1¼ miles, CAT E vis to 1½ miles.
- ** Circling E of Rwy 17-35 not authorized.



MISSED APPROACH: Climb to 3000 on RDR TACAN R-353 to FRISK and hold.

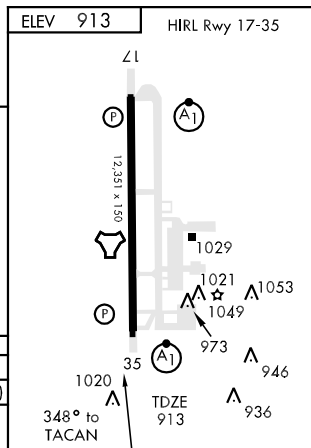
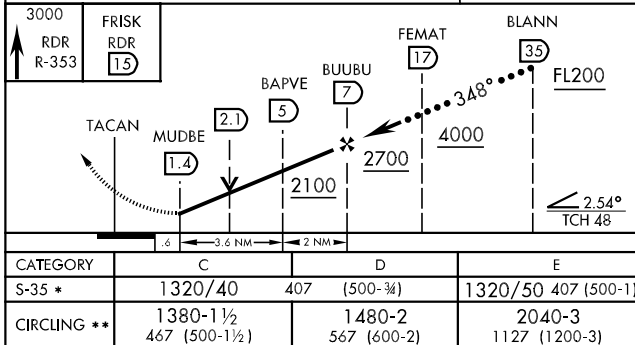
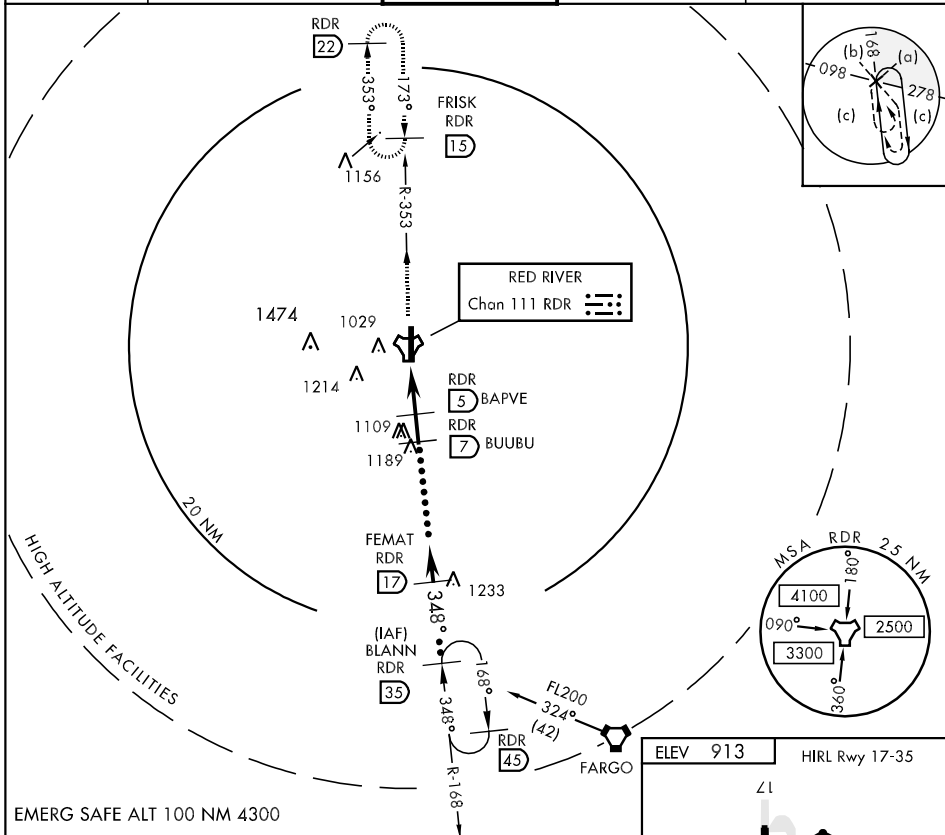
ATIS ★
273.45

GRAND FORKS APP CON
118.1 318.1

RED RIVER TOWER
124.9 349.0

GND CON
119.15 275.8

CLNC DEL
119.15 360.7



LOC I-RDR <u>109.9</u>	APCH CRS 354°	Rwy Idg 12,351 TDZE 913 Arpt Elev 913
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AL-5010 [USAF]

GRAND FORKS AFB (KRDR)

* When ALS inop, increase RVR to 40 and vis to ¾ mile.

****** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT CD RVR to 60 and vis to 1¼ miles, CAT E vis to 1½ miles.

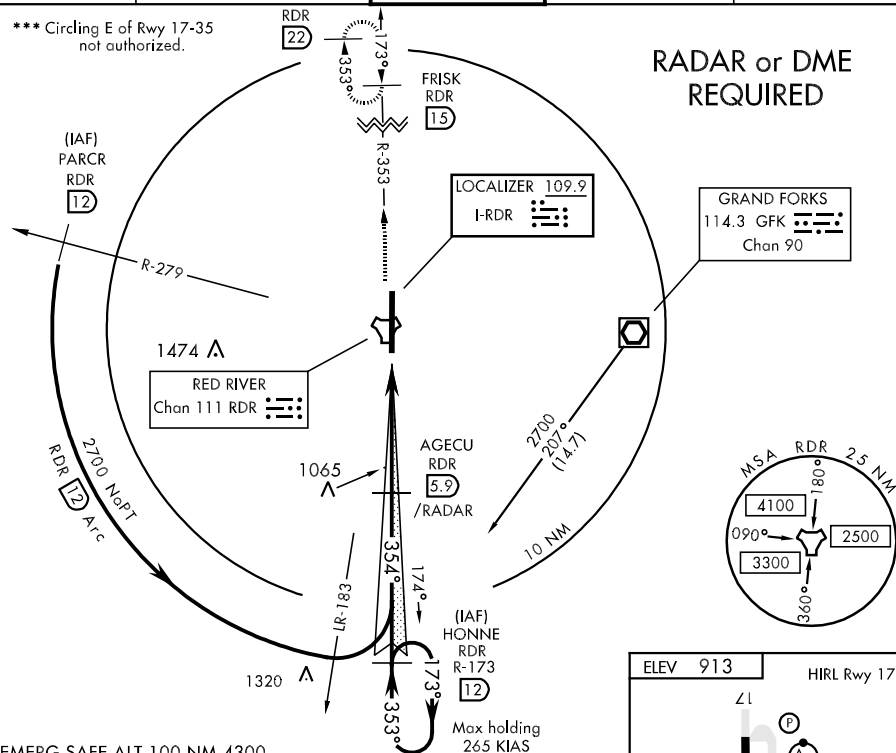
ALSF-1



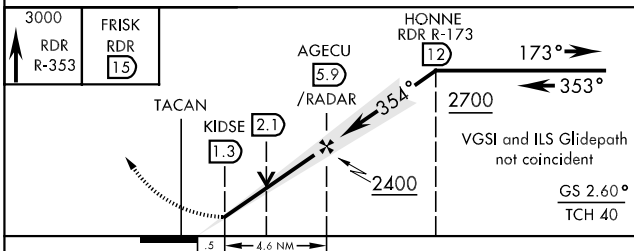
MISSED APPROACH: Climb to 3000 on RDR TACAN R-353 to FRISK and hold.

ATIS ★ 273.45	GRAND FORKS APP CON 118.1 318.1	RED RIVER TOWER 124.9 349.0	GND CON 119.15 275.8	CLNC DEL 119.15 360.7
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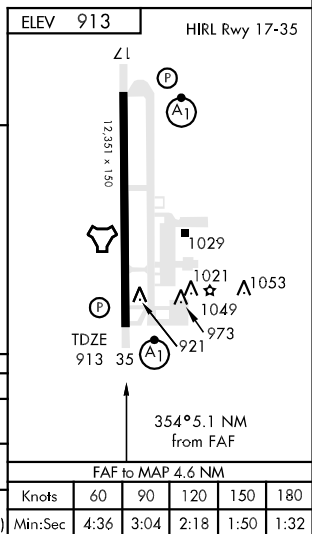
*** Circling E of Rwy 17-35
not authorized.



EMERG SAFE ALT 100 NM 4300



CATEGORY	A	B	C	D	E
S-ILS 35 *	1113/24		200	(200-½)	
S-LOC 35 **	1320/24	407 (500-½)	1320/40	407 (500-¾)	1320/50 407 (500-1)
CIRCLING ***	1340-1 427 (500-1)	1380-1 467 (500-1)	1380-1½ 467 (500-1½)	1480-2 567 (600-2)	2040-3 1127 (1200-3)



TACAN RDR Chan 111	APCH CRS 179°	Rwy Idg 12,351 TDZE 902 Arpt Elev 913
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AL-5010 [USAF]

GRAND FORKS AFB (KRDR)

* When ALS inop, increase CAT ABCD RVR to 50 and vis to 1 mile,
CAT E RVR to 60 and vis to 1 1/4 miles.

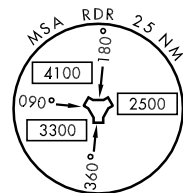
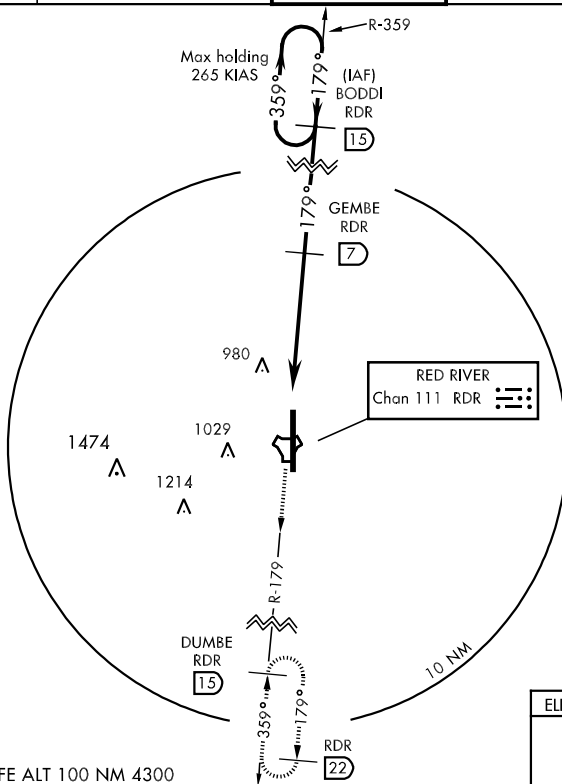
** Circling E of Rwy 17-35 not authorized.

ALS-1



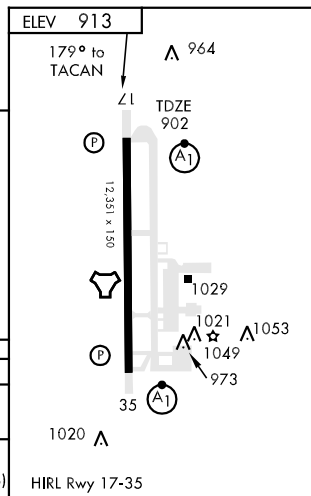
MISSED APPROACH: Climb to 3000 on
RDR TACAN R-179 to DUMBE and hold.

ATIS ★ 273.45	GRAND FORKS APP CON 118.1 318.1	RED RIVER TOWER 124.9 349.0	GND CON 119.15 275.8	CINC DEL 119.15 360.7
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EMERG SAFE ALT 100 NM 4300

3000 RDR R-179	DUMBE RDR 15				
<p>TACAN PAROC 2.3 2 7 5.0 NM GEMBE 7 2500 179° 179° 359° 3000 2.56° TCH 47</p>					
CATEGORY	A	B	C	D	E
S-17 *	1240/24 338 (400-½)		1240/40 338 (400-¾)		
CIRCLING **	1340-1 427 (500-1)	1380-1 467 (500-1)	1380-1½ 467 (500-1½)	1480-2 567 (600-2)	2040-3 1127 (1200-3)



TACAN RDR
Chan **111**

APCH CR
348°

Rwy Idg	12,351
TDZE	913
Arpt Elev	913

AL-5010 [USAF]

GRAND FORKS AFB (KRDR)

* When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT CD RVR to 60 and vis to 1¼ miles, CAT E vis to 1½ miles.

** Circling E of Rwy 17-35 not authorized.

ALSF-1



MISSED APPROACH: Climb to 3000 on RDR TACAN R-353 to FRISK and hold.

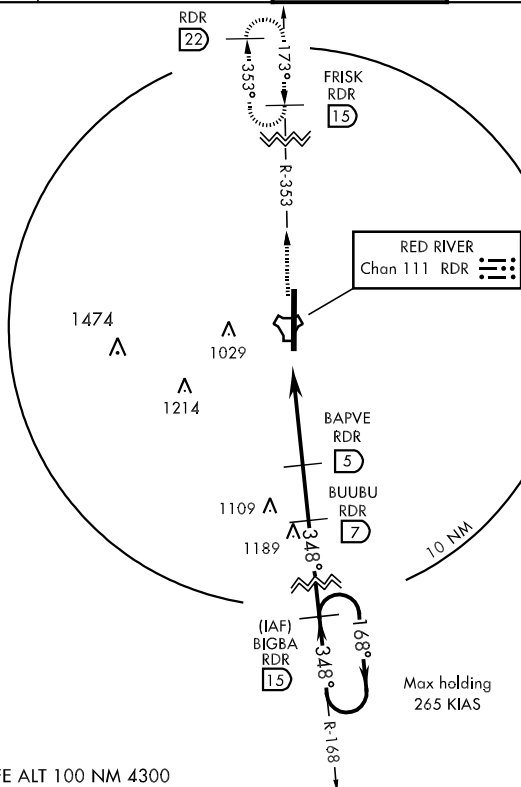
ATIS ★
273.45

GRAND FORKS APP CON
118.1 318.1

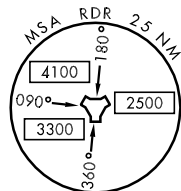
RED RIVER TOWER
124.9 349.0

GND CON
119.15 275.8

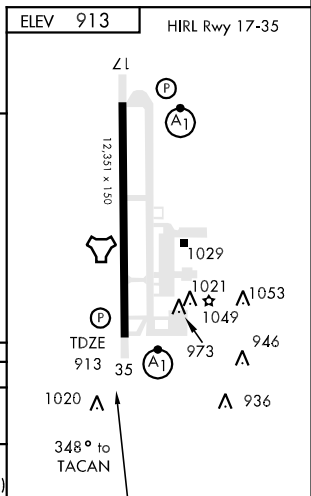
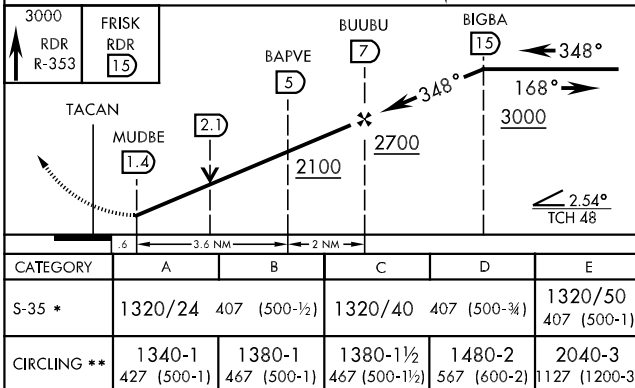
CLNC DEL
119.15 360.7



Max holding
265 KIAS



EMERG SAFE ALT 100 NM 4300



NDB GWR	APP CRS	Rwy Idg	4986
<u>278</u>	344°	TDZE	1256
		Apt Elev	1266

NDB RWY 34

GWINNER-ROGER MELROE FIELD (GWR)

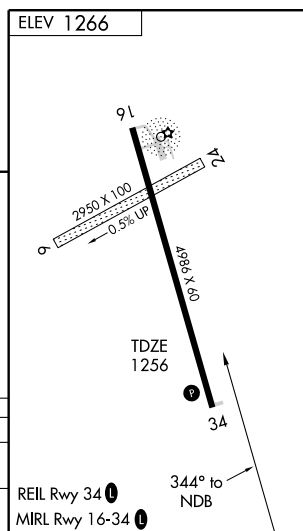
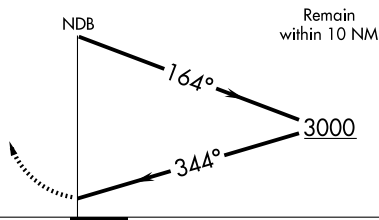
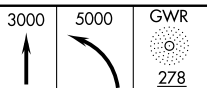
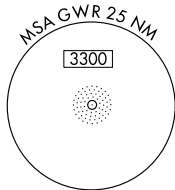
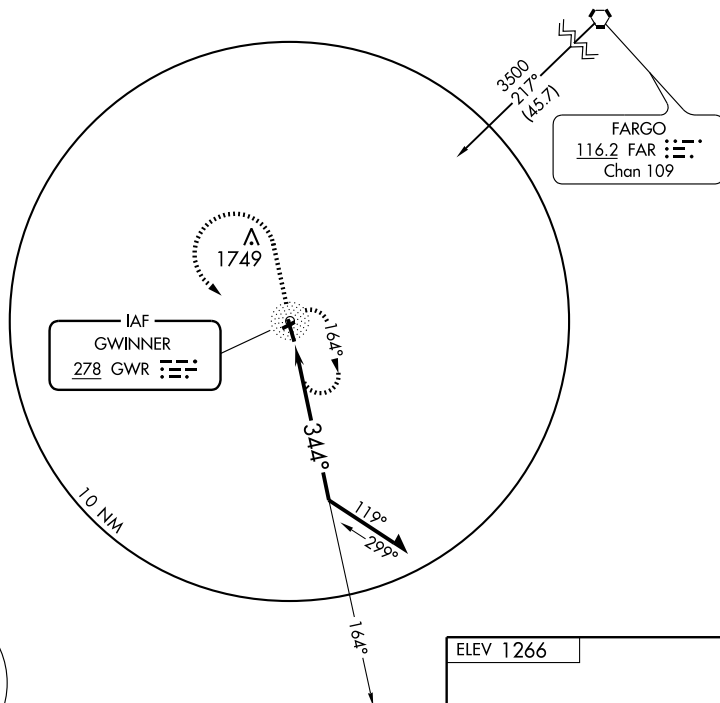
T When local altimeter setting not received, use Fargo altimeter setting and increase all MDA 180 feet. Increase all Cat B visibilities $\frac{1}{4}$ mile, and all Cat C/D visibilities $\frac{3}{4}$ mile.

MISSED APPROACH: Climb to 3000 then climbing left turn to 5000 direct GWR NDB and hold, continue climb-in-hold to 5000.

AWOS-3
118.325

MINNEAPOLIS CENTER
127.35 278.3

UNICOM
122.7 (CTAF) **L**



CATEGORY	A	B	C	D
S-34	1840-1	584 (600-1)	1840-1½ 584 (600-1½)	1840-1¾ 584 (600-1¾)
CIRCLING	1840-1	574 (600-1)	1840-1½ 574 (600-1½)	1840-2 574 (600-2)

APP CRS	Rwy Idg	4986
160°	TDZE	1256
	Apt Elev	1266

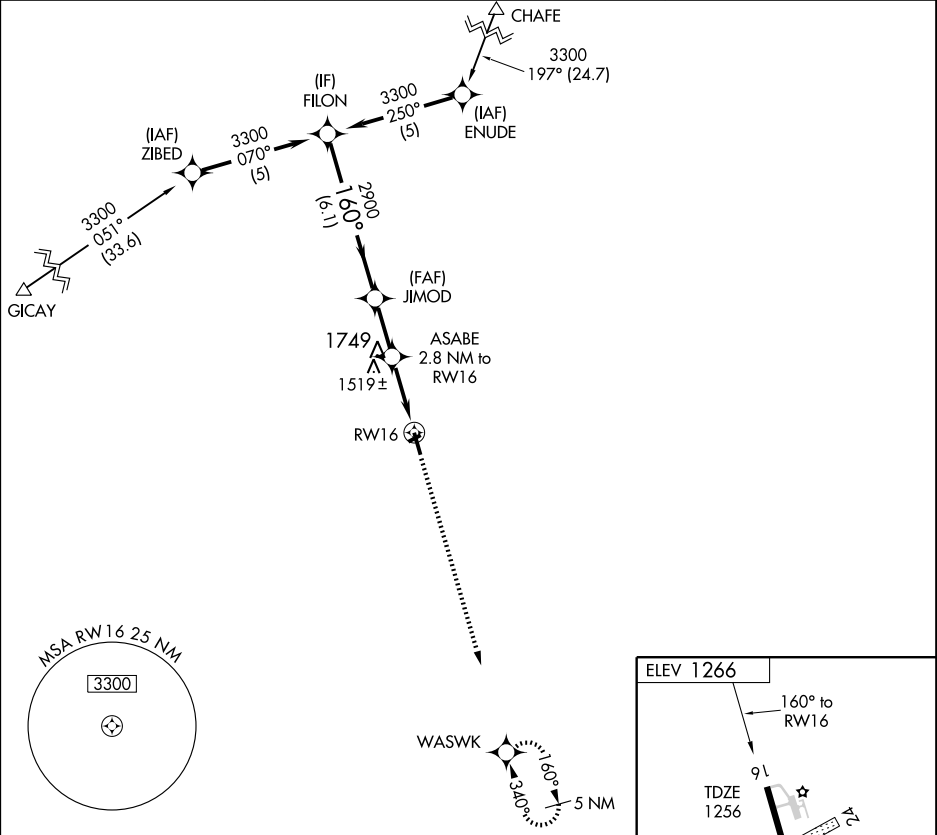
RNAV (GPS) RWY 16

GWINNER-ROGER MELROE FIELD (GWR)

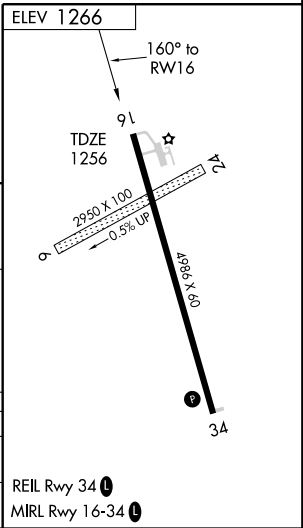
NA DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Fargo altimeter setting and increase all MDA 180 feet. Increase LNAV Cat C/D visibility ½ mile, Circling Cat C ½ mile and Cat D ¼ mile.

MISSED APPROACH: Climb to 5000 direct WASWK and hold, continue climb-in-hold to 5000.

AWOS-3 118.325	MINNEAPOLIS CENTER 127.35 278.3	UNICOM 122.7 (CTAF) 0
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	FILON		JIMOD	ASABE 2.8 NM to RW16	5000	WASWK
	3300					
	160°					
Procedure Turn NA			3.04° TCH 40			
	2900					
			2180			
	RW16					
	6.1 NM		2.2 NM	2.8 NM		
CATEGORY	A	B	C	D		
LNAV MDA	1780-1	524 (600-1)	1780-1½ 524 (600-1½)	1780-1¾ 524 (600-1¾)		
CIRCLING	1780-1	514 (600-1)	1780-1½ 514 (600-1½)	1820-2 554 (600-2)		



APP CRS	Rwy Idg	4986
340°	TDZE	1256
	Apt Elev	1266

RNAV (GPS) RWY 34

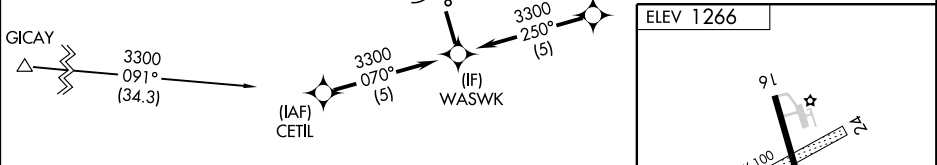
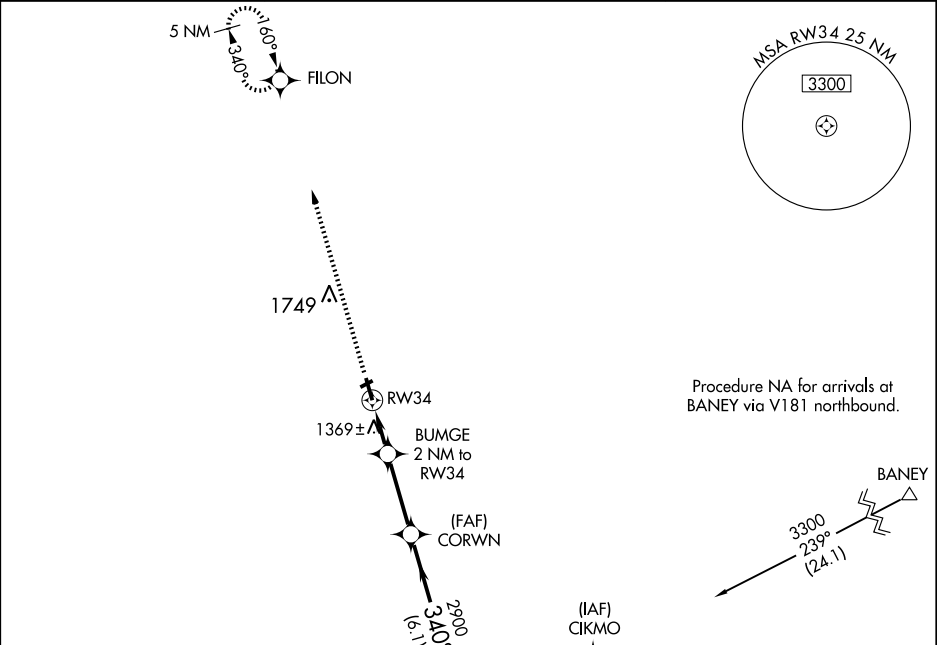
GWINNER-ROGER MELROE FIELD (GWR)

NA

DME/DME RNP-0.3 NA. When local altimeter setting not received, use Fargo altimeter setting and increase all MDA 180 feet. Increase LNAV Cat C/D visibility ½ mile, Circling Cat C/D ¼ mile. VDP NA when using Fargo altimeter setting.

MISSED APPROACH: Climb to 5000 direct FILON and hold, continue climb-in-hold to 5000.

AWOS-3 118.325	MINNEAPOLIS CENTER 127.35 278.3	UNICOM 122.7(CTAF) 0
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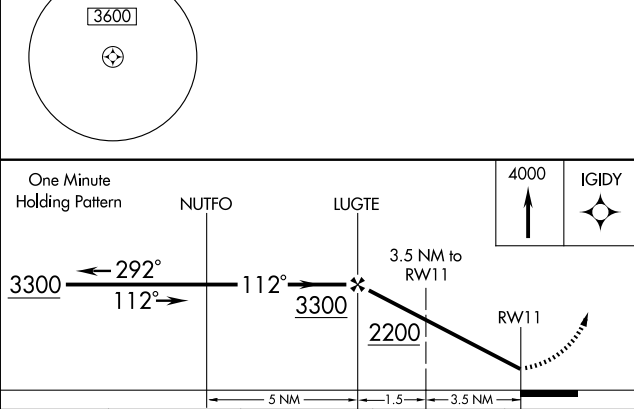
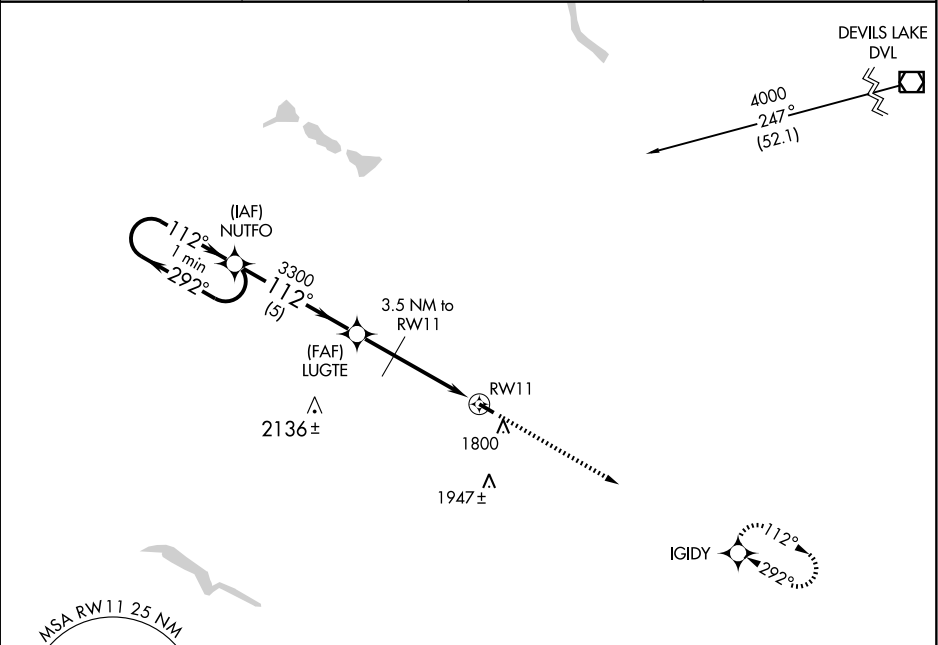


5000	FILON	VGSI and descent angles not coincident.			
		BUMGE 2 NM to RW34	CORWN	WASWK	
		1.1 NM to RW34	3.04° TCH 40	340°	3300
		1920	2900		Procedure Turn NA
CATEGORY	A	B	C	D	
LNAV MDA	1620-1	364 (400-1)		1620-1¼ 364 (400-1¼)	
CIRCLING	1700-1 434 (500-1)	1720-1 454 (500-1)	1720-1½ 454 (500-1½)	1820-2 554 (600-2)	

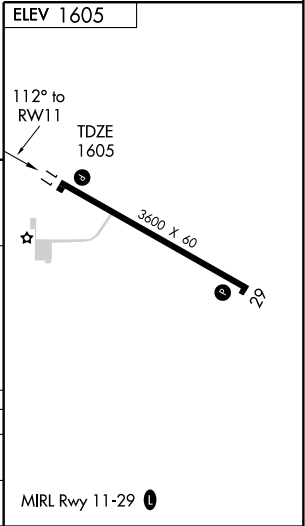
GPS RWY 11
HARVEY MUNI (5H4)

APP CRS	Rwy Idg	3600
112°	TDZE	1605
	Apt Elev	1605

NA Use Devils Lake altimeter setting. Procedure not authorized at night.		MISSED APPROACH: Climb to 4000 direct IGIDY WP and hold.	
AWOS-3 118.825	DEVILS LAKE AWOS-3 125.875	MINNEAPOLIS CENTER 124.2 270.3	UNICOM 122.8 (CTAF) 0



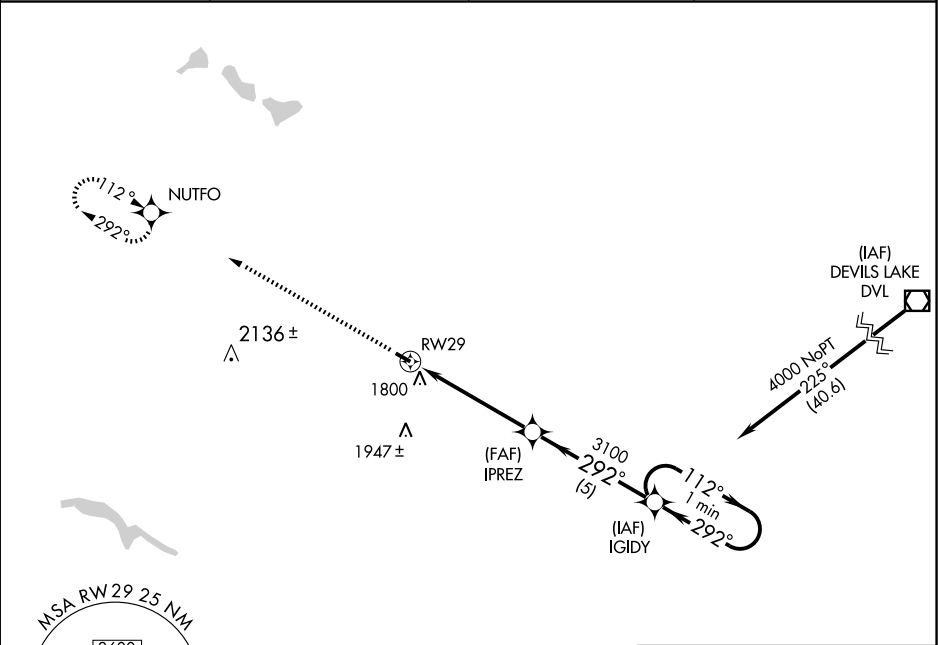
CATEGORY	A	B	C	D
S-11	2080-1	475 (500-1)	2080-1¼ 475 (500-1¼)	NA
CIRCLING	2240-1	635 (700-1)	2240-1¾ 635 (700-1¾)	NA



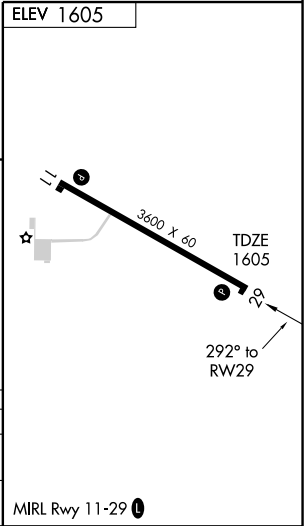
GPS RWY 29
HARVEY MUNI (5H4)

APP CRS	Rwy Idg	3600
292°	TDZE	1605
	Apt Elev	1605

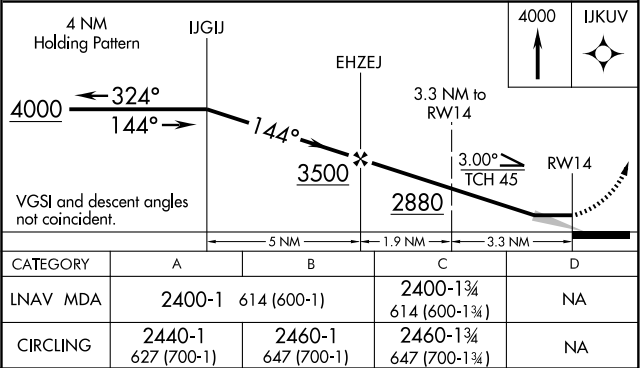
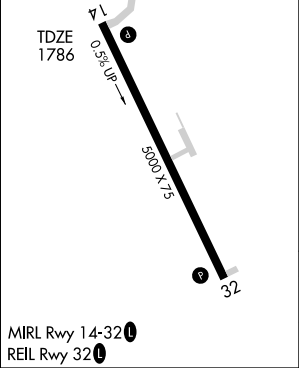
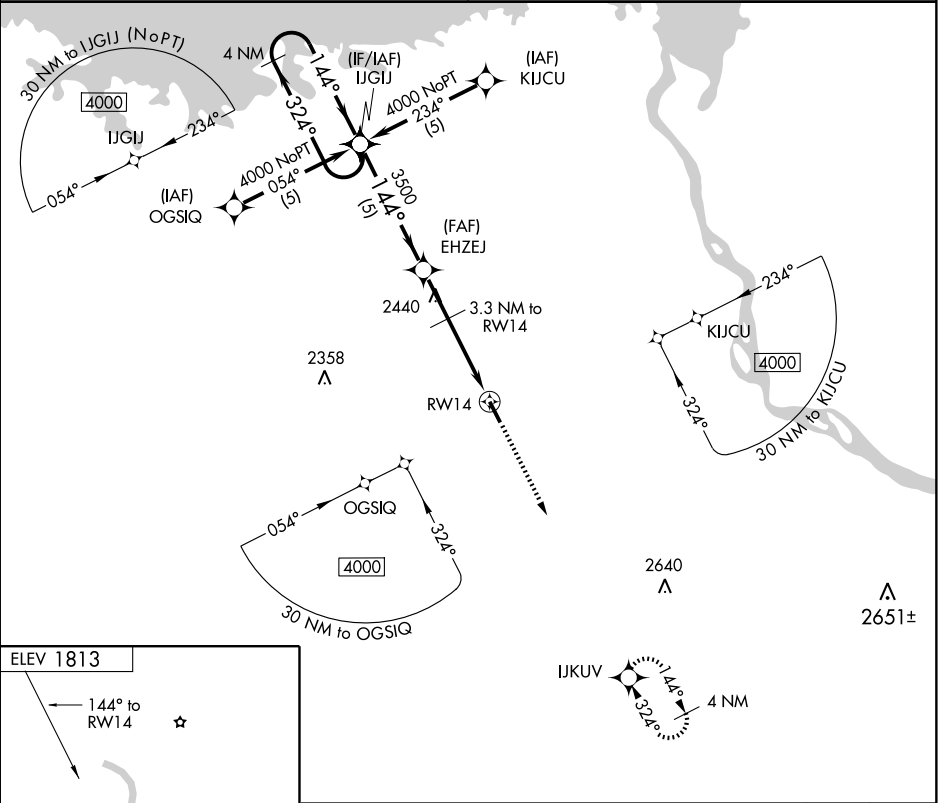
NA Use Devils Lake altimeter setting. Procedure not authorized at night.		MISSED APPROACH: Climb to 4000 direct NUTFO WP and hold.	
AWOS-3 118.825	DEVILS LAKE AWOS-3 125.875	MINNEAPOLIS CENTER 124.2 270.3	UNICOM 122.8 (CTAF) 0



4000 ↑		NUTFO ✧		One Minute Holding Pattern	
RW29		IPREZ		IGIDY	
3100		3100		3100	
5 NM		5 NM			
CATEGORY	A	B	C	D	
S-29	2140-1	535 (600-1)	2140-1½ 535 (600-1½)	NA	
CIRCLING	2240-1	635 (700-1)	2240-1¾ 635 (700-1¾)	NA	



<div> <div>NA</div> <div> <div>Use Bismarck, ND altimeter setting.</div> <div>GPS or RNP 0.3-required.</div> <div>DME/DME RNP-0.3 NA.</div> </div> </div>	<div>MISSED APPROACH: Climb to 4000 direct IJKUV WP and hold.</div>
<div>MINNEAPOLIS CENTER</div> <div>124.25 380.3</div>	<div>CTAF</div> <div>122.8</div>



APP CRS	Rwy Idg	5000
324°	TDZE	1813
	Apt Elev	1813

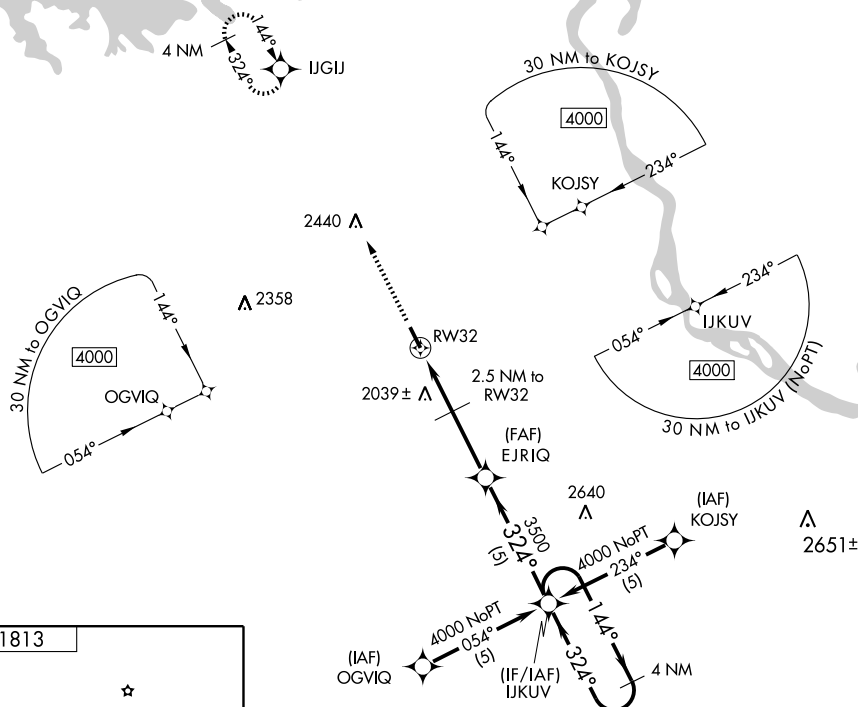
RNAV (GPS) RWY 32

HAZEN/MERCER COUNTY RGNL (HZE)

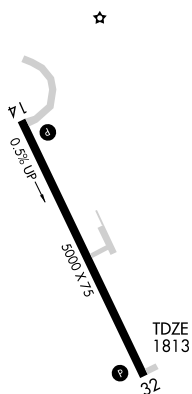
A NA Use Bismarck, ND altimeter setting.
GPS or RNP-0.3 required.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 4000 direct UGIJ WP and hold.

MINNEAPOLIS CENTER
124.25 380.3

CTAF
122.8 L

ELEV 1813

MIRL Rwy 14-32 **L**

REIL Rwy 32 (L)

324° to
RW32

Diagram illustrating a step climb procedure for RW32. The climb profile shows a 2.5 NM segment to RW32, followed by a 2.6 NM segment to 3500 feet, and a final 5 NM segment to 4000 feet. The climb angle is 3.00° TCH 45. The final segment has a 1.44° climb angle and a 324° heading. The diagram also shows the holding pattern at 4000 feet. The diagram is labeled with 'RW32', '2.5 NM to RW32', '2.5 NM', '2.6 NM', '5 NM', '3500', '4000', '324°', '1.44°', '4 NM Holding Pattern', 'VGSI and descent angles not coincident.', 'EJRIQ', 'IJUV', 'IJGIJ', and '4000'.

CATEGORY	A	B	C	D
LNAV MDA	2420-1	607 (700-1)	2420-1 ³ / ₄ 607 (700-1 ³ / ₄)	NA
CIRCLING	2440-1 627 (700-1)	2460-1 647 (700-1)	2460-1 ³ / ₄ 647 (700-1 ³ / ₄)	NA

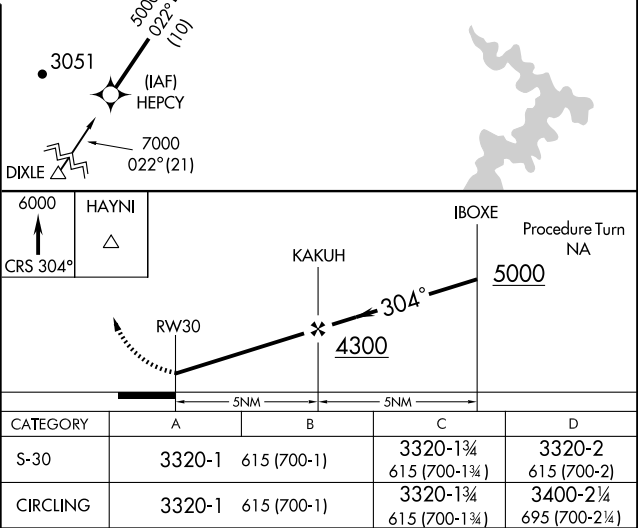
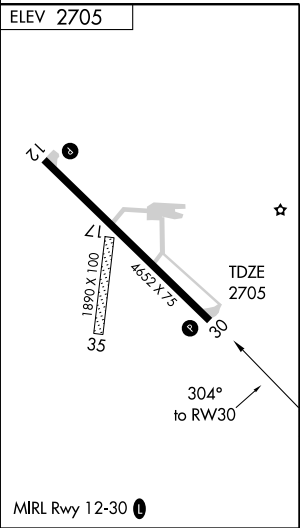
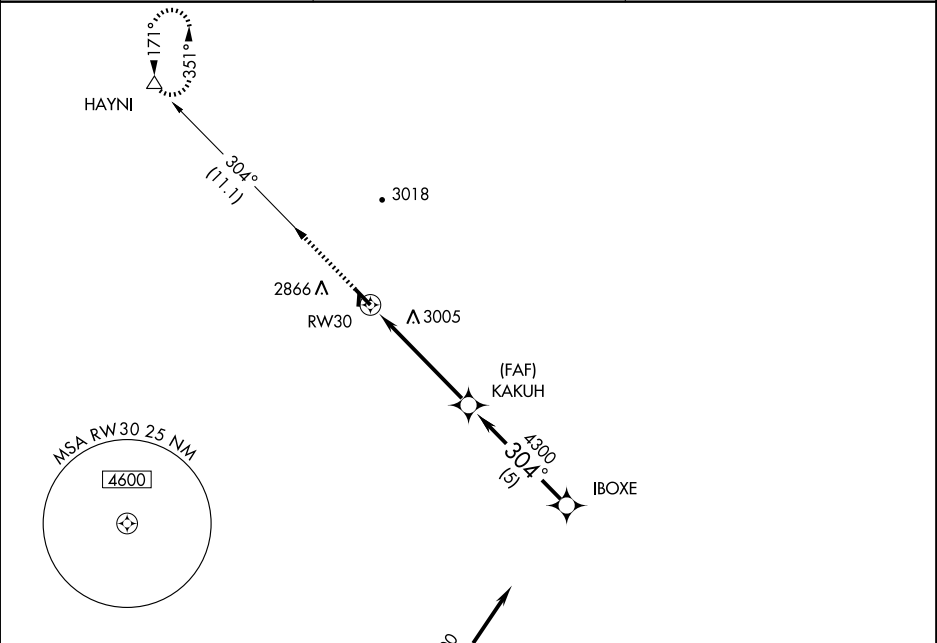
APP CRS	Rwy Idg	4652
304°	TDZE	2705
	Apt Elev	2705

GPS RWY 30

HETTINGER MUNI (HET)

MISSED APPROACH: Climb to 6000 via 304° course to HAYNI
WP and hold.

ASOS 119.925	MINNEAPOLIS CENTER 124.25 380.3	UNICOM 122.8 (CTAF)
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APP CRS	Rwy Idg	3300
166°	TDZE	905
	Apt Elev	905

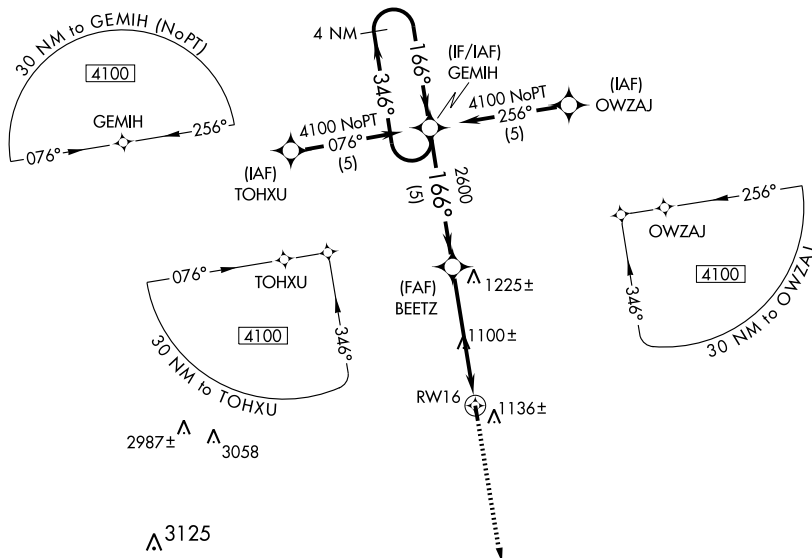
RNAV (GPS) RWY 16
HILLSBORO MUNI (3H4)

T	DME/DME RNP- 0.3 NA.
A NA	Use Fargo altimeter setting.

MISSED APPROACH: Climb to 4100 direct IKLAJ WP and hold.

FARGO ASOS
124.5

FARGO APP CON ★
120.4 377.15

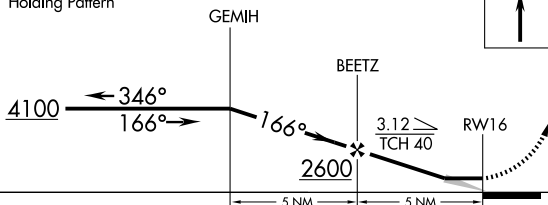
CTAF
122.9 **L**

4 NM
Holding Pattern

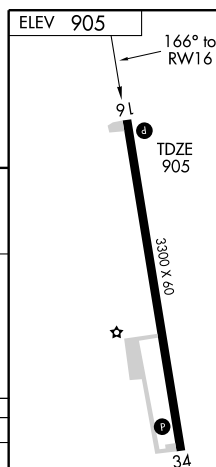
VGSI and descent angles not coincident.

4100

IKLAJ



CATEGORY	A	B	C	D
LNAV MDA	1480-1	575 (600-1)	1480-1½ 575 (600-1½)	NA
CIRCLING	1520-1	615 (700-1)	1520-1¾ 615 (700-1¾)	NA

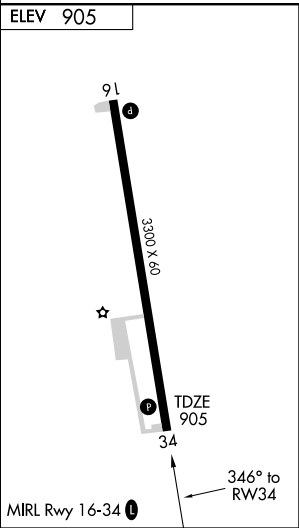
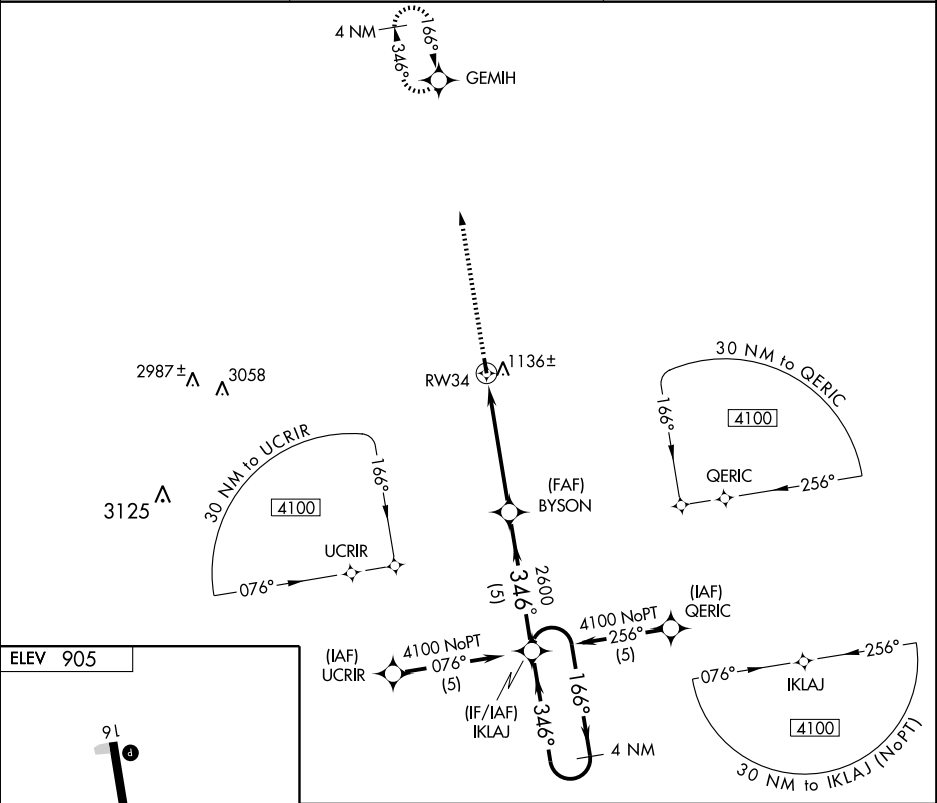
MIRL Rwy 16-34 **L**



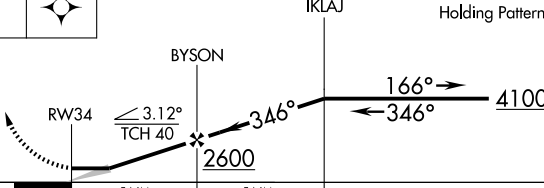
APP CRS	Rwy Idg	3300
346°	TDZE	905
	Apt Elev	905

RNAV (GPS) RWY 34
HILLSBORO MUNI (3H4)

NA	DME/DME RNP- 0.3 NA. Use Fargo altimeter setting.	MISSED APPROACH: Climb to 4100 direct GEMIH WP and hold.
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FARGO ASOS 124.5	FARGO APP CON★ 120.4 377.15	CTAF 122.9
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4100	GEMIH	VGSi and descent angles not coincident.			
		4 NM Holding Pattern			
					
CATEGORY	A	B	C	D	
LNAV MDA	1460-1	555 (600-1)	1460-1½ 555 (600-1½)	NA	
CIRCLING	1520-1	615 (700-1)	1520-1¾ 615 (700-1¾)	NA	

LOC/DME I-JMS <u>109.3</u> Chan 30	APP CRS 307°	Rwy Idg 6502 TDZE 1498 Apt Elev 1500
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ILS or LOC RWY 31
JAMESTOWN RGNL (JMS)



MALSR

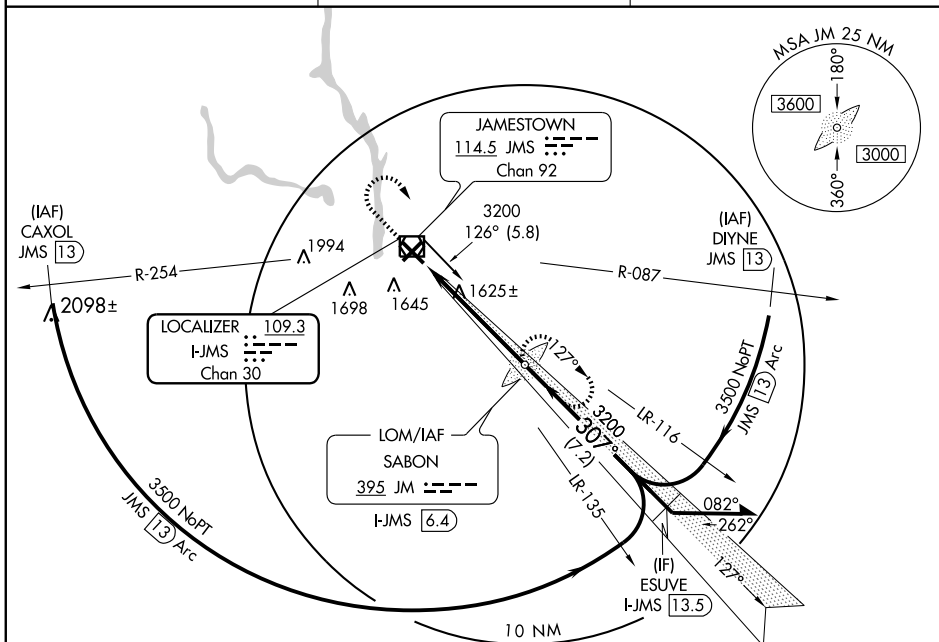


MISSED APPROACH: Climb to 3200 then right turn direct SABON LOM/-JMS 6.4 DME and hold.

ASOS
118.425

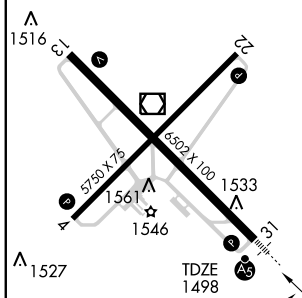
MINNEAPOLIS CENTER
124.2 270.3

UNICOM
123.0 (CTAF) **L**




NC-1. 22 OCT 2009 to 19 NOV 2009

ELEV 1500	D
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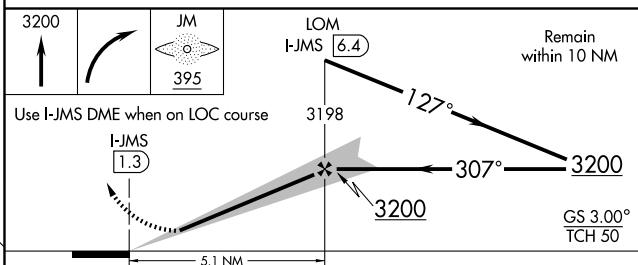
MIRL Rwy 4-22 (L)

HIRE Rwy 13-31 RFII Rwy 4, 13, and 22 **L**

FAF to MAP 5.1 NM

Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

DME or ADF REQUIRED



CATEGORY	A	B	C	D
S-ILS 31	1698- $\frac{1}{2}$ 200 (200- $\frac{1}{2}$)			
S-LOC 31	1880- $\frac{1}{2}$ 385 (400- $\frac{1}{2}$)			1880- $\frac{3}{4}$ 385 (400- $\frac{3}{4}$)
CIRCLING	1960-1 462 (500-1)		1960-1 $\frac{1}{2}$ 462 (500-1 $\frac{1}{2}$)	2060-2 562 (600-2)

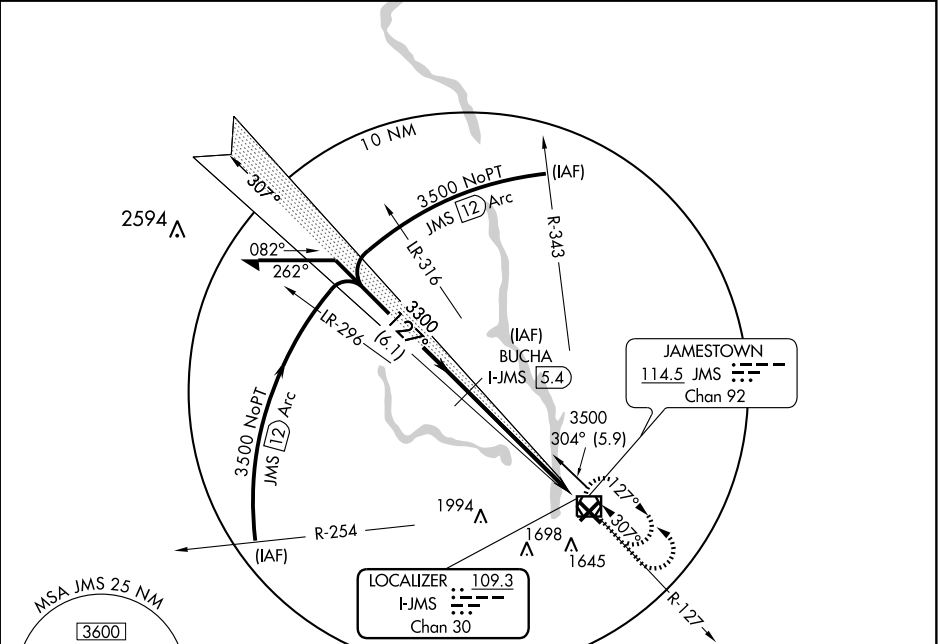
LOC/DME I-JMS	APP CRS	Rwy Idg	6502
109.3	127°	TDZE	1498
Chan 30		Apt Elev	1498

LOC/DME BC RWY 13

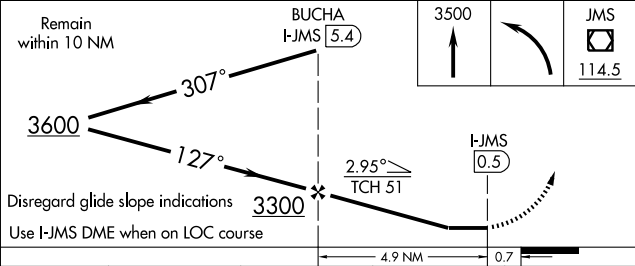
JAMESTOWN RGNL (JMS)

<div>▼</div> <div>▲ NA</div>	MISSED APPROACH: Climb to 3500 then left turn direct JMS VOR/DME and hold.
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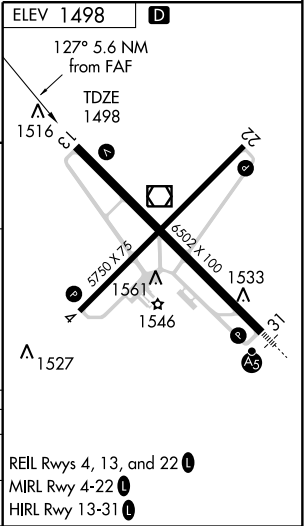
ASOS 118.425	MINNEAPOLIS CENTER 124.2 270.3	UNICOM 123.0 (CTAF) 0
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BACK COURSE



CATEGORY	A	B	C	D
S-13	1860-1	362 (400-1)		1860-1¼ 362 (400-1¼)
CIRCLING	1960-1	462 (500-1)	1960-1½ 462 (500-1½)	2060-2 562 (600-2)

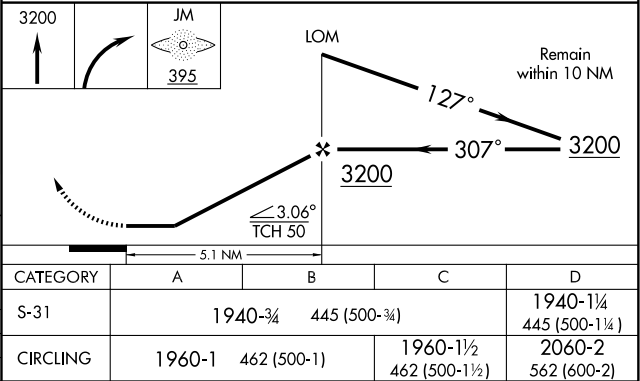
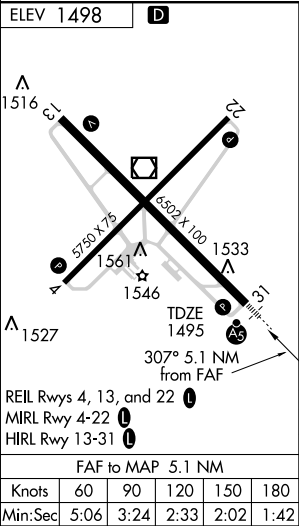
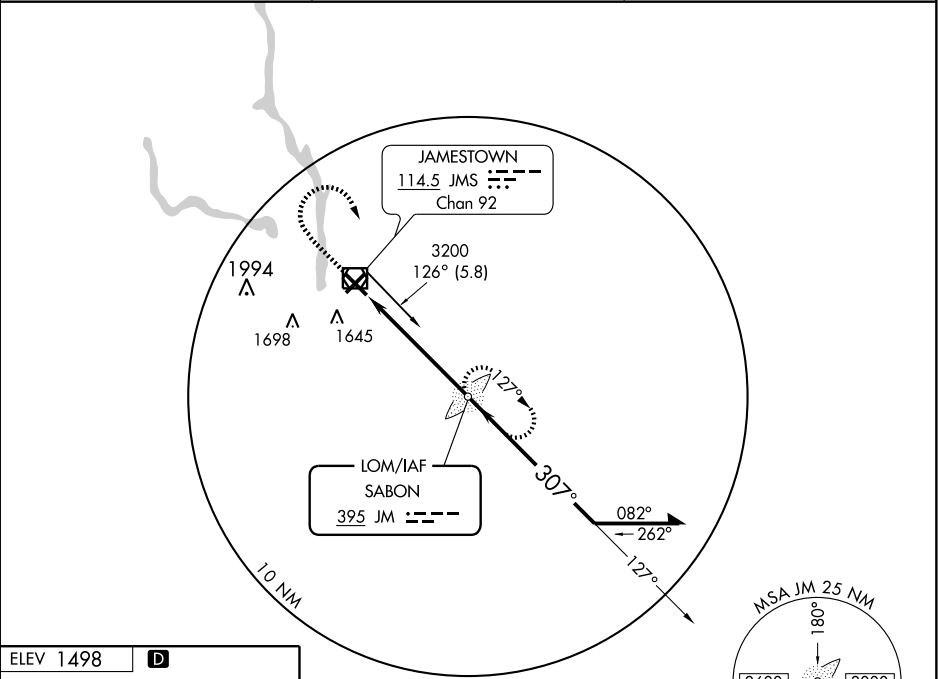


LOM JM 395	APP CRS 307°	Rwy Idg TDZE Apt Elev	6502 1495 1498
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NDB RWY 31
JAMESTOWN RGNL (JMS)

 NA	MALSR 	MISSED APPROACH: Climb to 3200 then right turn direct JM LOM and hold.
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ASOS 118.425	MINNEAPOLIS CENTER 124.2 270.3	UNICOM 123.0 (CTAF) 
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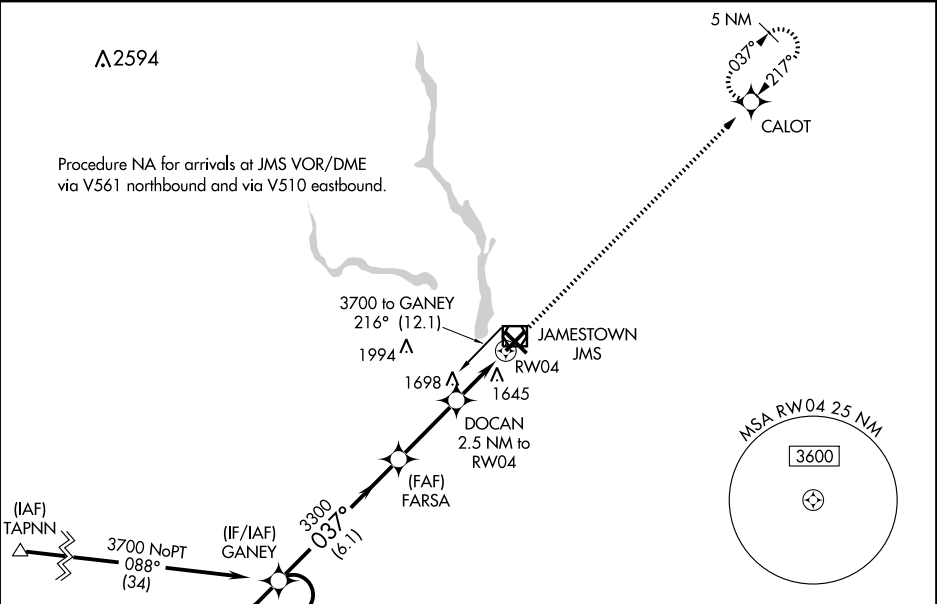
WAAS CH 97505 W04A	APP CRS 037°	Rwy Idg TDZE Apt Elev	5750 1496 1500
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RNAV (GPS) RWY 4
JAMESTOWN RGNL (JMS)

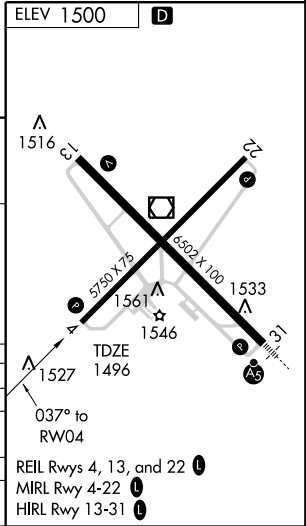
T Baro-VNAV NA when using Devils Lake altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 46°C (114°F).
A DME/DME RNP-0.3 NA. VDP NA when using Devils Lake altimeter setting.
W If local altimeter setting not received, use Devils Lake altimeter setting and increase all DAs 172 feet and all MDAs 180 feet.

MISSED APPROACH: Climb to 3300 direct CALOT and hold.

ASOS 118.425	MINNEAPOLIS CENTER 124.2 270.3	UNICOM 123.0 (CTAF) 0
------------------------	--	---------------------------------






ELEV 1500 D		VGS1 and RNAV glidepath not coincident			
5 NM Holding Pattern		3300 CALOT			
GS 3.00° TCH 45		*LNAV only			
CATEGORY		A	B	C	D
LPV DA		1746-1		250 (300-1)	
LNAV/VNAV DA		1930-1½		434 (500-1½)	
LNAV MDA		2000-1	504 (500-1)	2000-1½	504 (500-1½)
CIRCLING		2000-1	500 (500-1)	2000-1½	2060-2
				500 (500-1½)	560 (600-2)



WAAS CH 65805 W13A	APP CRS 127°	Rwy Idg 6502 TDZE 1500 Apt Elev 1500
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RNAV (GPS) RWY 13
JAMESTOWN RGNL (JMS)

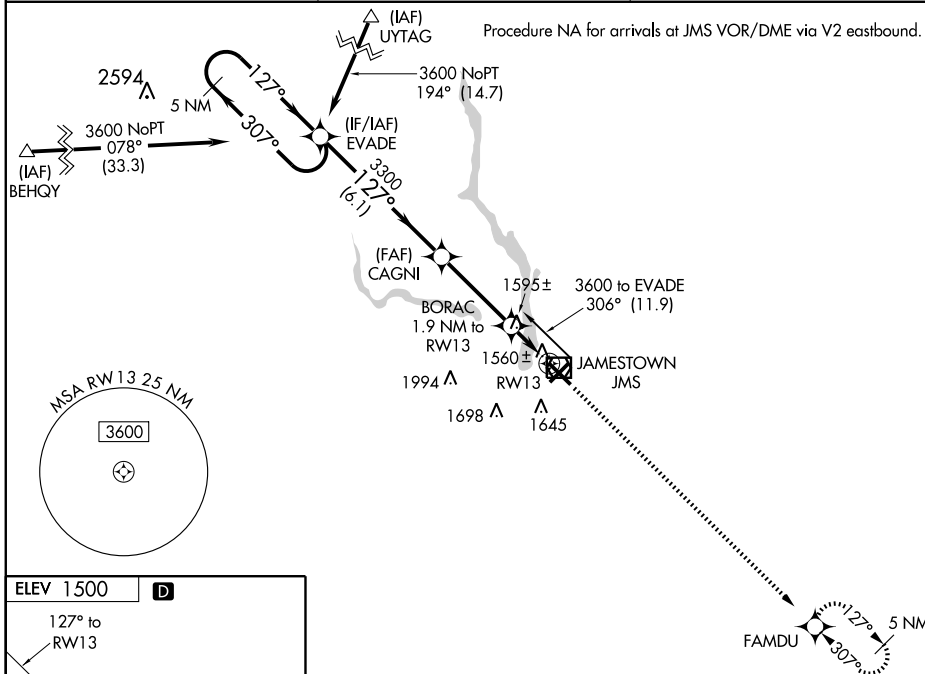
	Baro-VNAV NA when using Devils Lake altimeter setting.
	For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 46°C (114°F).
	DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
	VDP NA when using Devils Lake altimeter setting.
	If local altimeter setting not received, use Devils Lake altimeter setting and increase all DAs 172 feet and all MDAs 180 feet.

MISSED APPROACH: Climb to 3500
direct FAMDU and hold.

ASOS
118,425

MINNEAPOLIS CENTER
124.2 270.3

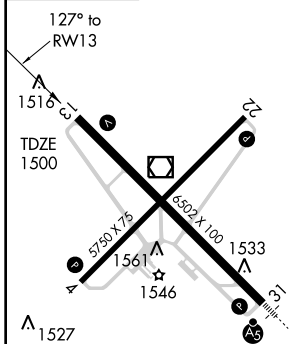
UNICOM
123.0 (CTAF) **L**



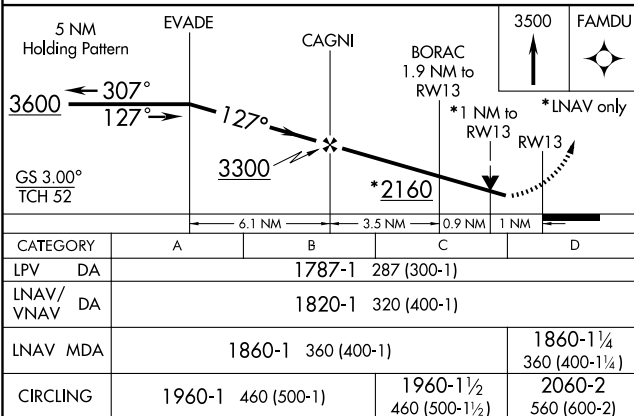
NC-1. 22 OCT 2009 to 19 NOV 2009

ELEV 1500

D

REIL Rwys 4, 13, and 22 **L**

MIRL Rwy 4-22 (L)

HIRL Rwy 13-31 **L**

▼

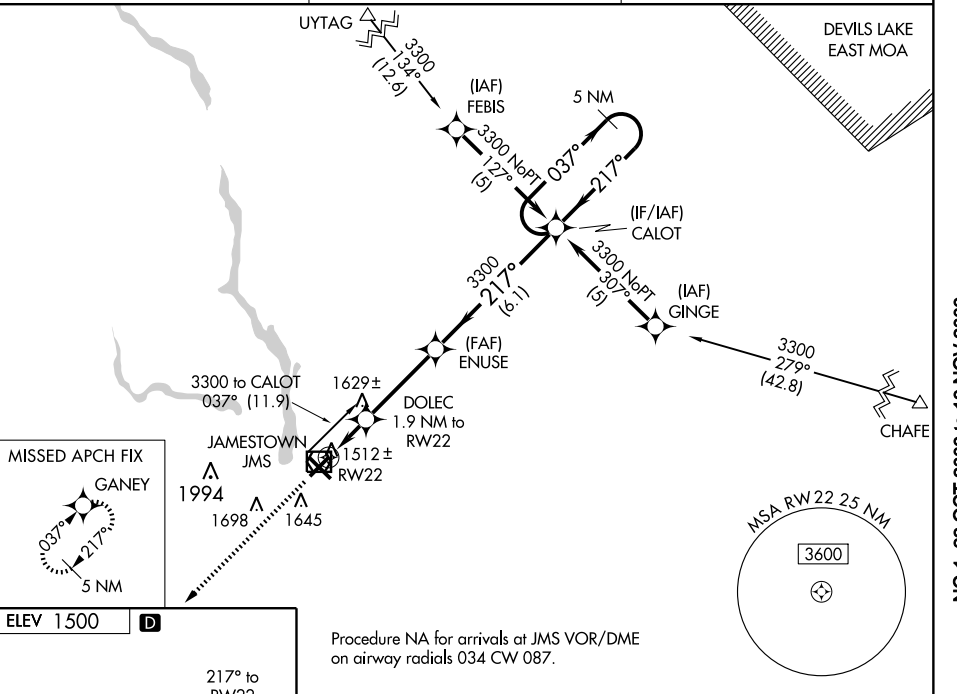
▲

■

Baro-VNAV NA when using Devils Lake altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 46°C (114°F).
DME/DME RNP- 0.3 NA. VDP NA when using Devils Lake altimeter setting. If local altimeter setting not received, use Devils Lake altimeter setting and increase all DAs 172 feet and all MDAs 180 feet.

MISSED APPROACH: Climb to 3700 direct GANEY and hold.

ASOS 118.425	MINNEAPOLIS CENTER 124.2 270.3	UNICOM 123.0 (CTAF) 0
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ELEV 1500

D

Procedure NA for arrivals at JMS VOR/DME on airway radials 034 CW 087.

3700

GANEY

VGSI and RNAV glidepath not coincident.

DOLEC 1.9 NM to RW22

ENUSE

CALOT

5 NM Holding Pattern

3300

GS 3.00° TCH 45

0.9 1 NM 3.5 NM 6.1 NM

CATEGORY	A	B	C	D
LPV DA		1750-1	250 (300-1)	
LNNAV/VNAV DA		1772-1	272 (300-1)	
LNNAV MDA		1800-1	300 (300-1)	
CIRCLING	1960-1	460 (500-1)	1960-1½ 460 (500-1½)	2060-2 560 (600-2)

REIL Rwy 4, 13, and 22
MIRL Rwy 4-22
HIRL Rwy 13-31

NC-1: 22 OCT 2009 to 19 NOV 2009

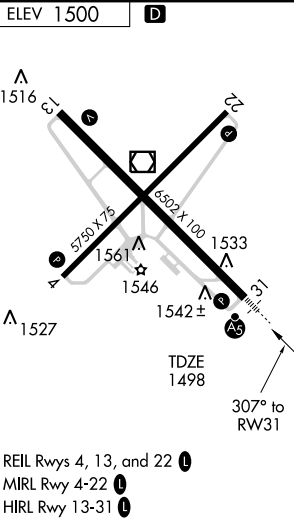
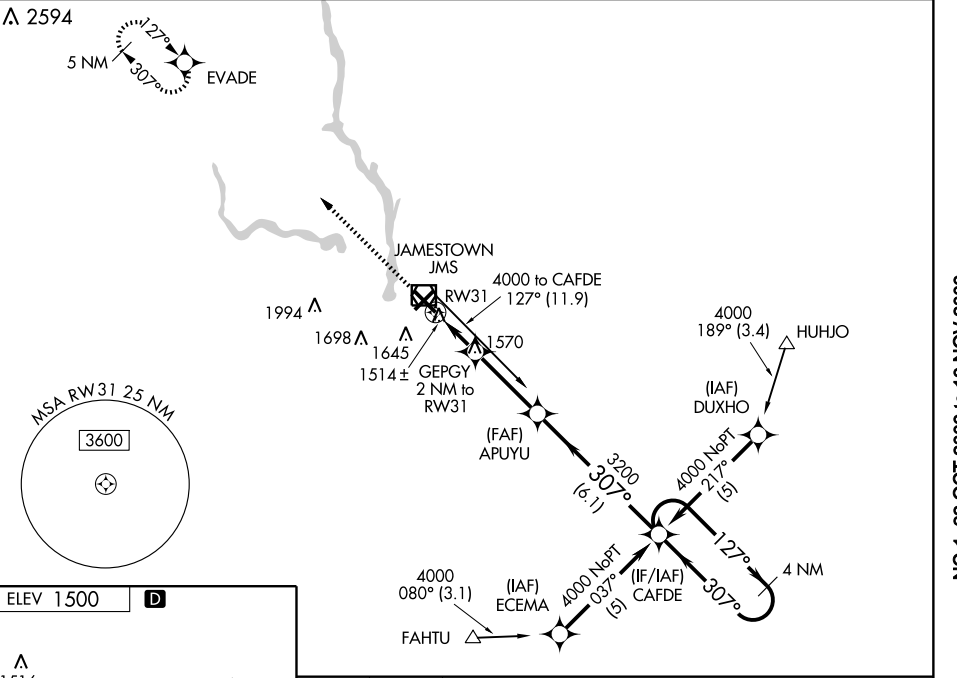
WAAS CH 66014 W31A	APP CRS 307°	Rwy Idg 6502 TDZE 1498 Apt Elev 1500
--	------------------------	---

T For inoperative MALSR, increase LNAV Cat D visibility to 1¼ mile. Baro-VNAV NA when using Devils Lake altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Devils Lake altimeter setting and increase all DA 172 feet, all MDA 180 feet, increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats visibility ½ mile, LNAV Cat C visibility ½ mile, Cat D visibility ¼ mile, Circling Cats C and D visibility ¼ mile. VDP NA with Devils Lake altimeter setting. For inoperative MALSR when using Devils Lake altimeter setting increase LPV all Cats visibility to 1¼ mile. Inoperative table does not apply to LNAV Cats C and D when using Devils Lake altimeter setting.

MALSR

MISSED APPROACH:
Climb to 3600
direct EVADE
and hold.

ASOS 118.425	MINNEAPOLIS CENTER 124.2 270.3	UNICOM 123.0 (CTAF) 0
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3600	EVADE	*LNAV only.	4 NM Holding Pattern	
CATEGORY				

REIL Rwy 4, 13, and 22 **0**
MIRL Rwy 4-22 **0**
HIRL Rwy 13-31 **0**

VOR/DME JMS 114.5 Chan 92	APP CRS 117°	Rwy Idg 6502 TDZE 1500 Apt Elev 1500
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VOR RWY 13
JAMESTOWN RGNL (JMS)

T If local altimeter setting not received, procedure NA.
 Visibility reduction by helicopters NA.

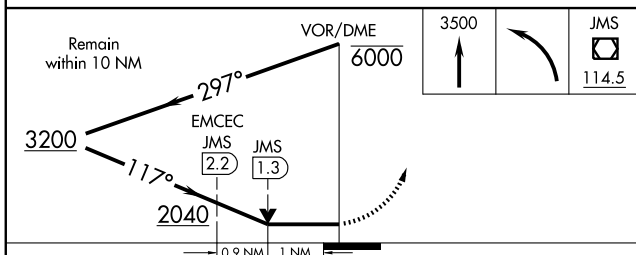
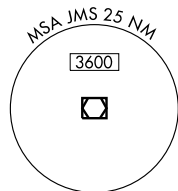
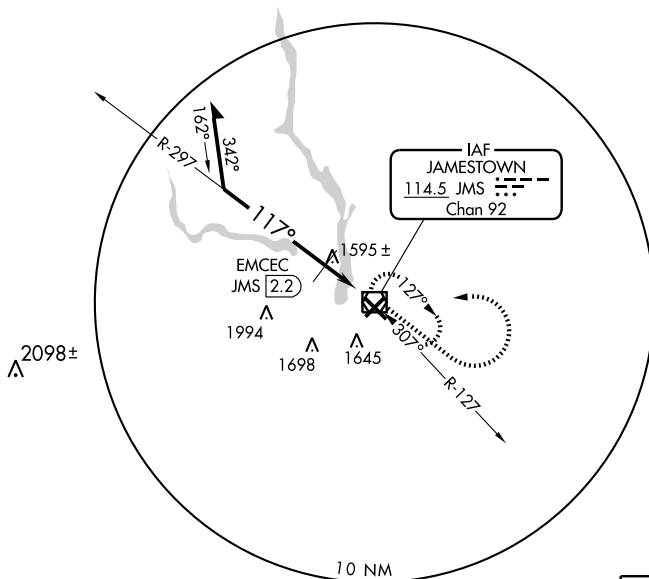
MISSED APPROACH: Climb to 3500 then left turn direct JMS VOR/DME and hold.

ASOS
118,425

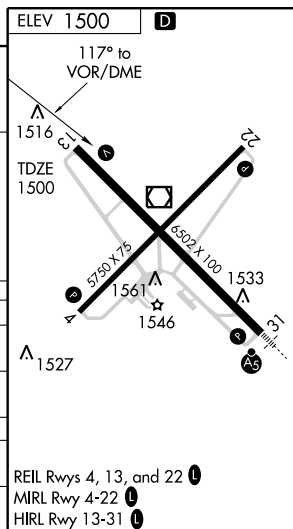
MINNEAPOLIS CENTER
124.2 270.3

UNICOM
123.0 (CTAF) **L**

Procedure NA for arrivals at JMS VOR/DME via V561 northbound.

DEVILS LAKE
EAST MOA

CATEGORY	A	B	C	D
S-13	2040-1	540 (600-1)	2040-1½ 540 (600-1½)	2040-1¾ 540 (600-1¾)
CIRCLING	2040-1	540 (600-1)	2040-1½ 540 (600-1½)	2060-2 560 (600-2)
EMCEC FIX MINIMUMS				
S-13	1860-1 360 (400-1)			1860-1¼ 360 (400-1¼)
CIRCLING	1960-1	460 (500-1)	1960-1½ 460 (500-1½)	2060-2 560 (600-2)



VOR/DME JMS 114.5 Chan 92	APP CRS 311°	Rwy Idg TDZE Apt Elev	6502 1498 1500
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VOR RWY 31

JAMESTOWN RGNL (JMS)

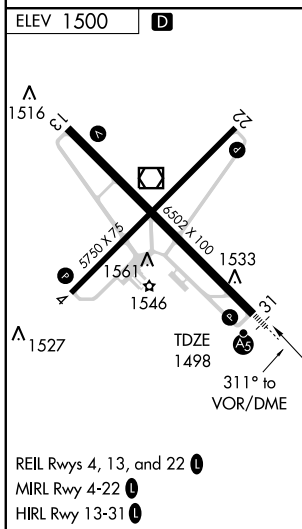
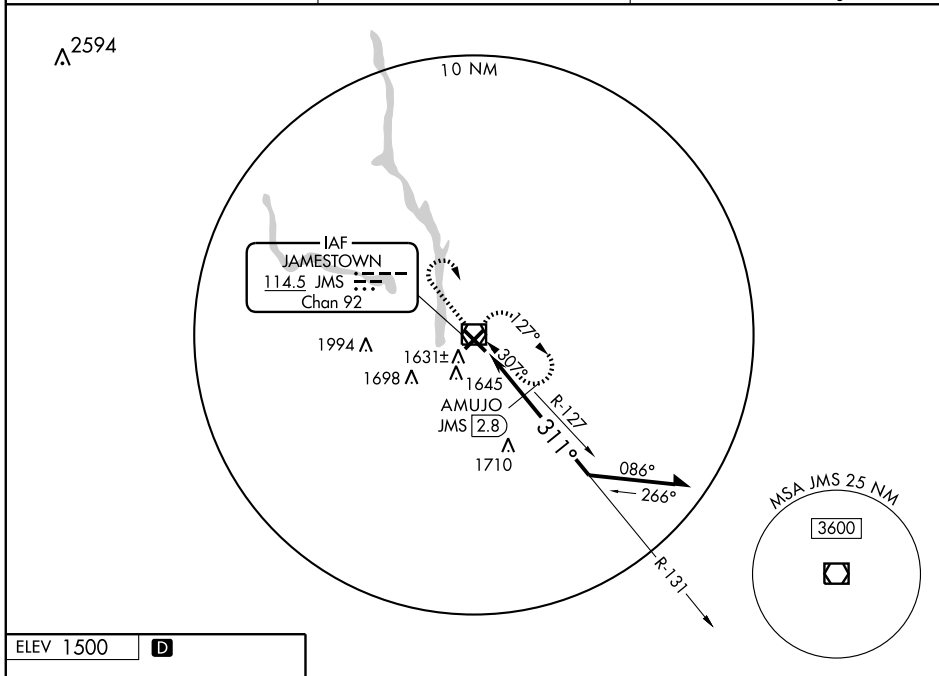
▼ For inoperative MALS, increase AMUJO FIX minimums S-31 Cat D visibility to $1\frac{1}{4}$ mile.
▲ VDP NA with Devils Lake altimeter setting. When local altimeter setting not received, use Devils Lake altimeter setting and increase all MDA 180 feet, increase S-31 Cats C and D visibility $\frac{3}{4}$ mile, Circling Cats C and D visibility $\frac{1}{2}$ mile, increase AMUJO FIX minimums S-31 Cat C and Circling Cats C and D visibility $\frac{1}{4}$ mile.

MALS



MISSED APPROACH:
 Climb to 3100 then
 right turn direct JMS
 VOR/DME and hold.

ASOS 118.425	MINNEAPOLIS CENTER 124.2 270.3	UNICOM 123.0 (CTAF) 0
------------------------	--	---------------------------------



	3100	JMS 114.5	VOR/DME	Remain within 10 NM
			131°	3100
			311°	2060
			1.1 NM	1 NM
				*2240 when using Devils Lake altimeter setting.
CATEGORY	A	B	C	D
S-31	2060- $\frac{1}{2}$	562 (600- $\frac{1}{2}$)	2060-1 562 (600-1)	2060-1 $\frac{1}{4}$ 562 (600-1 $\frac{1}{4}$)
CIRCLING	2060-1	560 (600-1)	2060-1 $\frac{1}{2}$ 560 (600-1 $\frac{1}{2}$)	2060-2 560 (600-2)
AMUJO FIX MINIMUMS				
S-31	1900- $\frac{1}{2}$	402 (400- $\frac{1}{2}$)	1900- $\frac{3}{4}$ 402 (400- $\frac{3}{4}$)	1900-1 402 (400-1)
CIRCLING	1960-1	460 (500-1)	1960-1 $\frac{1}{2}$ 460 (500-1 $\frac{1}{2}$)	2060-2 560 (600-2)

REIL Rwy 4, 13, and 22

MIRL Rwy 4-22

HIRL Rwy 13-31

APP CRS	Rwy Idg	3700
260°	TDZE	1960
	Apt Elev	1962

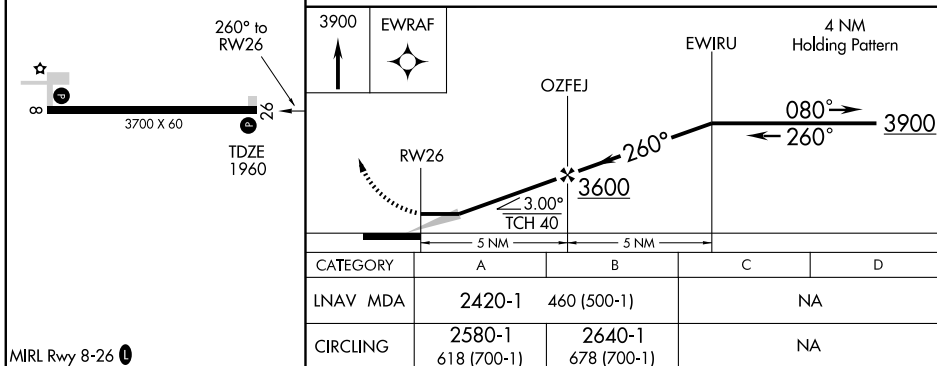
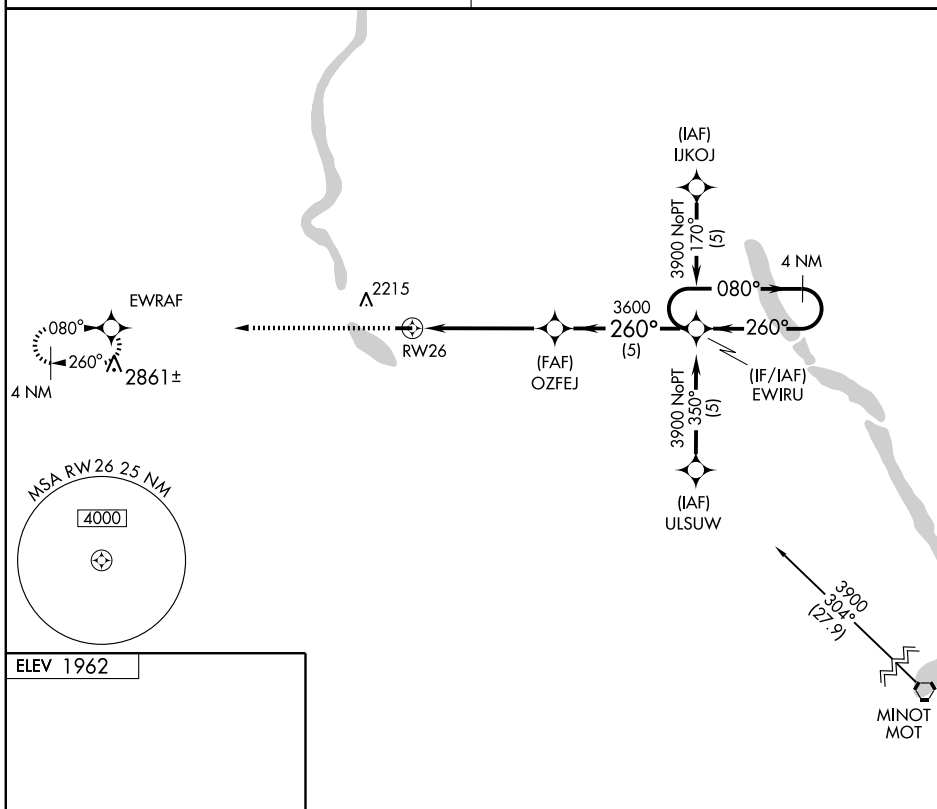
RNAV (GPS) RWY 26

KENMARE MUNI (7K5)

A NA	Use Minot Intl altimeter setting. GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.
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MISSED APPROACH: Climb to 3900
direct EWRAF WP and hold.

MINOT APP CON★
119.6 363.8

CTAF
122.8 

NC-1. 22 OCT 2009 to 19 NOV 2009

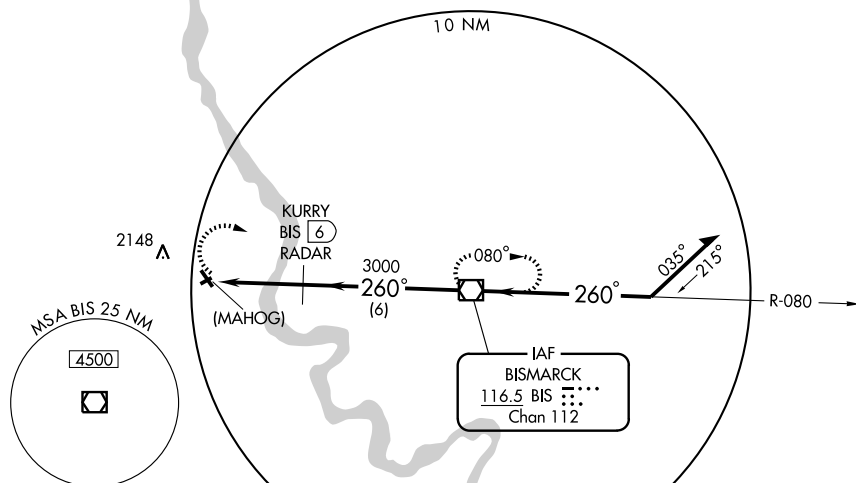
VOR/DME BIS 116.5 Chan 112	APP CRS 260°	Rwy Idg TDZE Apt Elev	N/A N/A 1944
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VOR or GPS-A
MANDAN MUNI (Y19)

<p>▲ NA Use Bismarck altimeter setting.</p> <p>ASR</p>	<p>MISSED APPROACH: Climbing right turn to 3500 direct BIS VOR/DME and hold.</p>
<p>BISMARCK APP CON ★ 126.3 298.9</p>	<p>UNICOM 122.8 (CTAF) ①</p>

NoPT for arrivals on BIS VOR/DME airway radials 029 clockwise to 159.

DME or RADAR REQUIRED



NC-1. 22 OCT 2009 to 19 NOV 2009

ELEV 1944

2059 ± Δ

260° 3.2 NM from FAF

400 X 75

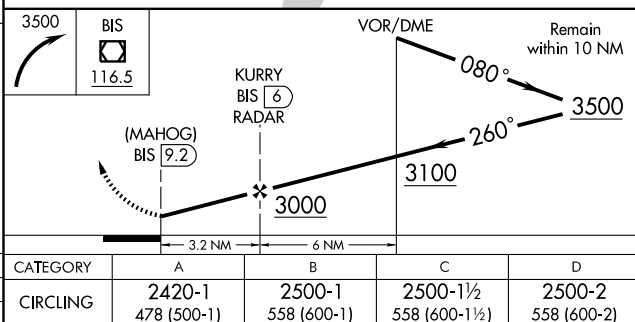
2900 X 120

0.7% UP

REIL Rws 13 and 31

MIRL Rwy 13-31 and 4-22

FAF to MAP 3.2 NM					
Knots	60	90	120	150	180
Min:Sec	3:12	2:08	1:36	1:17	1:04



AIRPORT DIAGRAM

AFD-5013 [USAF]

MINOT, NORTH DAKOTA

ATIS ★ 278.8
MINOT TOWER ★
120.65 253.5
GND CON
134.0 275.8
CLNC DEL
326.2

JULY 2007
ANNUAL RATE OF CHANGE
0.2° W

VAR 10.0° E

FIELD
ELEV
1667

115.1°

13,197 x 300

295.1°

29

ELEV
1648

Rwy 11-29
PCN 56 R/C/W/T

CONTROL
TOWER

HOT CARGO
PAD

1809

1728 Lighted poles

FIRE
STATION

BASE
OPS

1769

NC-1, 22 OCT 2009 to 19 NOV 2009

AIRPORT DIAGRAM

MINOT, NORTH DAKOTA

TACAN MIB Chan 96	APCH CRS 122°	Rwy ldg 13,197 TDZE 1667 Arpt Elev 1667
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AL-5013 [USAF]

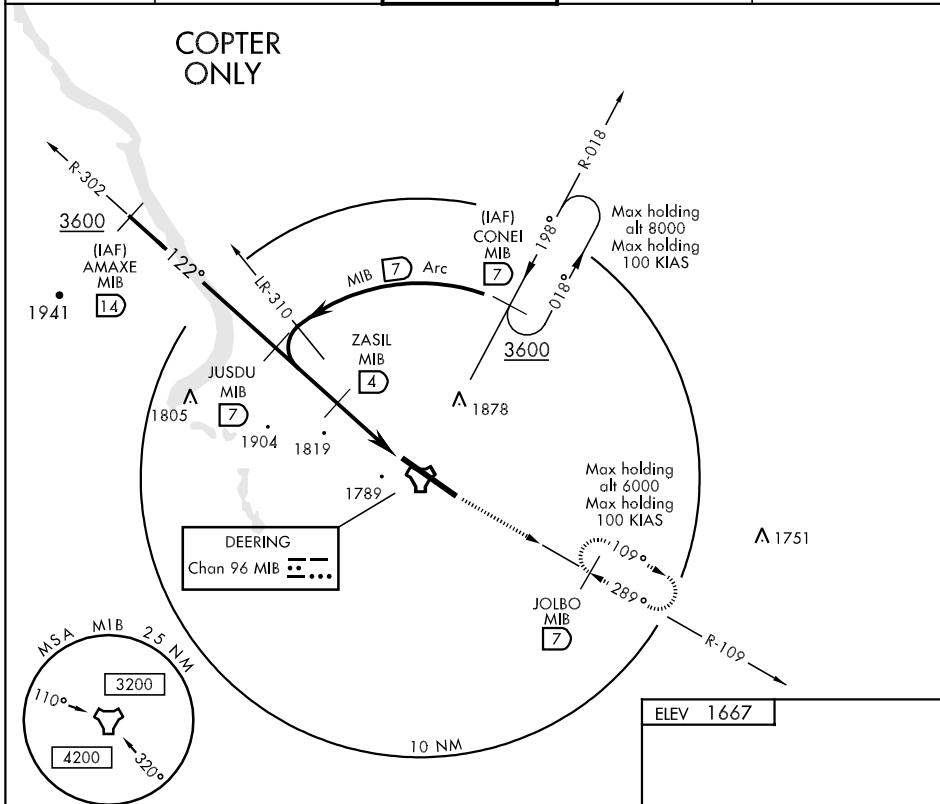
MINOT AFB (KMIB)

* When ALS inop, increase RVR to 24 and vis to ½ mile.



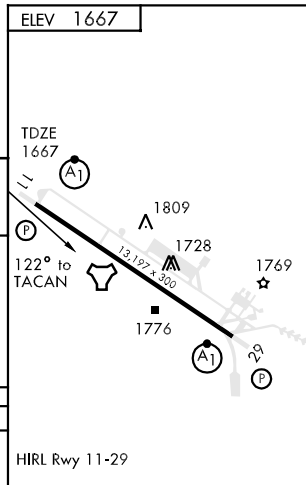
MISSED APPROACH: Climb to 3600 via MIB R-109 direct JOLBO MIB 7 DME and hold.

ATIS ★ 278.8	MINOT APP CON 119.6 363.8	MINOT TOWER ★ 120.65 253.5	GND CON 134.0 275.8	CLNC DEL 326.2
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EMERG SAFE ALT 100 NM 4800

JUSDU R-302 7	ZASIL 4	3600 MIB R-109 7	JOLBO MIB 7
3000	2600	2.2	1.1
2.65° TCH 47	122°	2.9 NM	2
CATEGORY	COPTER		
H-122°*	2080/12	412	(500-¼)



TACAN MIB Chan 96	APCH CRS 289°	Rwy ldg 13,197 TDZE 1644 Arpt Elev 1667
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AL-5013 [USAF]

MINOT AFB (KMIB)

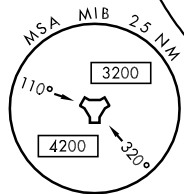
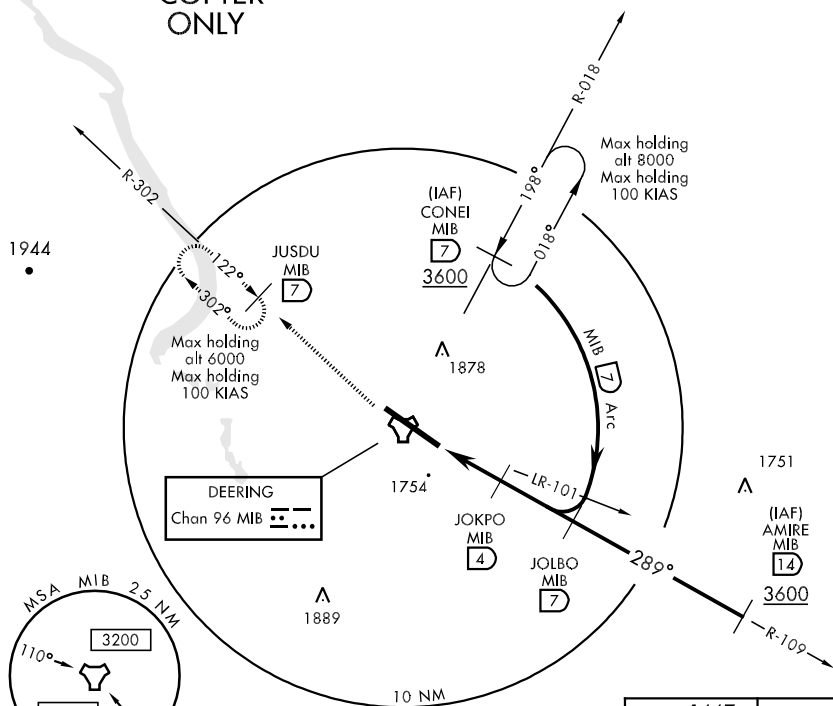
* When ALS inop, increase RVR to 24 and vis to ½ mile.



MISSED APPROACH: Climb to 3600 via MIB R-302 direct JUSDU MIB 7 DME and hold.

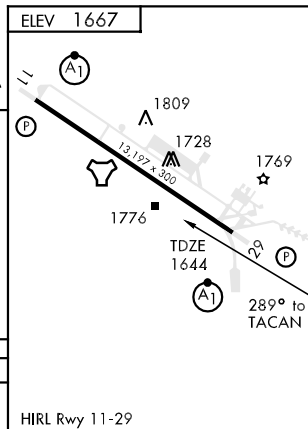
ATIS ★ 278.8	MINOT APP CON 119.6 363.8	MINOT TOWER ★ 120.65 253.5	GND CON 134.0 275.8	CLNC DEL 326.2
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COPTER ONLY



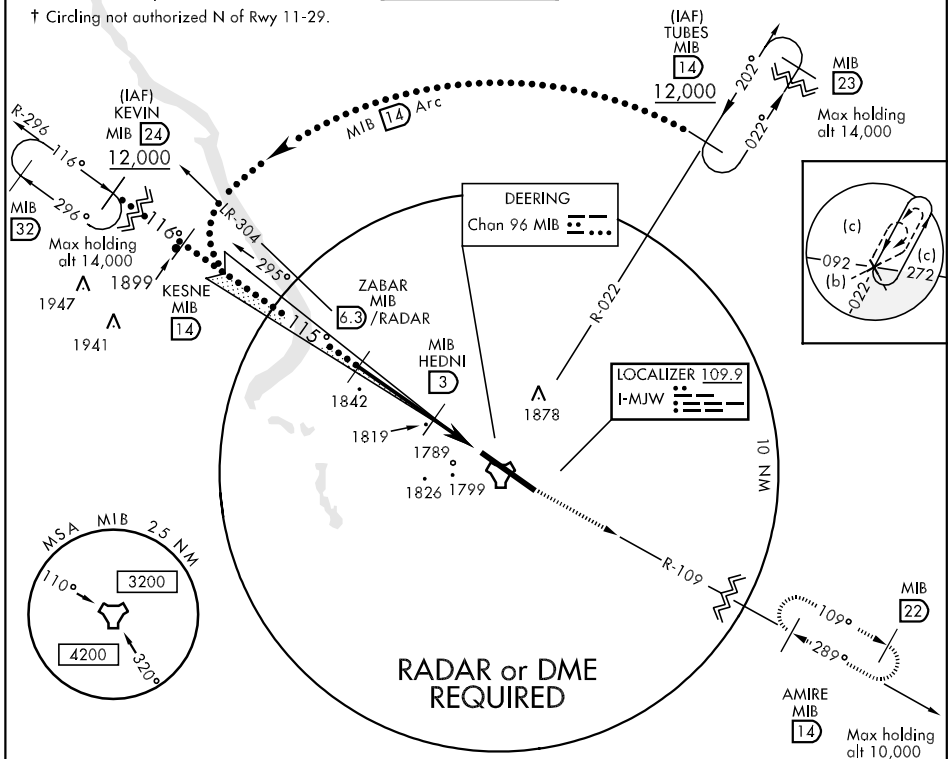
EMERG SAFE ALT 100 NM 4800

3600 MIB R-302	JUSDU MIB 7	JOLBO R-109
TACAN	JULAM 1.7	JOKPO 4
2.7	2.3 NM	3000
2400	289°	2.54° TCH 49
CATEGORY	COPTER	
H-289° *	2040/12	396 (400-¼)

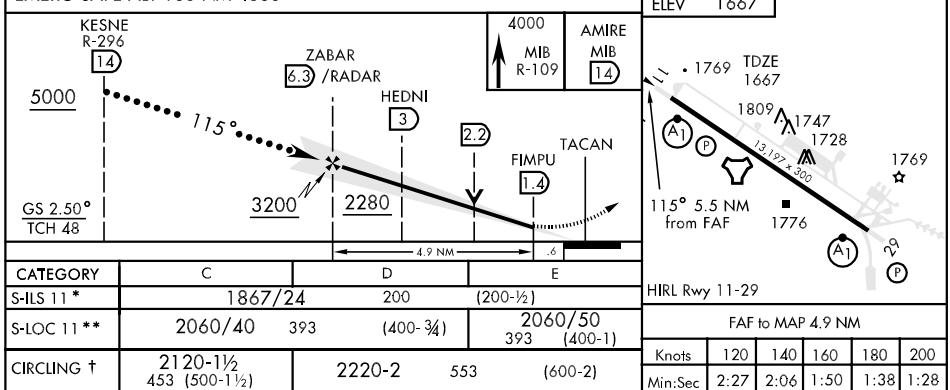


LOC 1-MJW 109.9	APCH CRS 115°	Rwy Idg 13,197 TDZE 1667 Arpt Elev 1667	JAL-5013 [USAF]	MINOT AFB (KMIB)
* When ALS inop, increase RVR to 40 and vis to ¾ mile. ** When ALS inop, increase CAT C RVR to 50 and vis to 1 mile, CAT D RVR to 60 and vis to 1¼ miles, CAT E vis to 1½ miles.			ALSF-1 	MISSED APPROACH: Climb to 4000 via MIB R-109 direct AMIRE and hold.
ATIS ★ 278.8	MINOT APP CON 119.6 363.8	MINOT TOWER ★ 120.65 253.5	GND CON 134.0 275.8	CLNC DEL 326.2

† Circling not authorized N of Rwy 11-29.



EMERG SAFE ALT 100 NM 4800



MINOT, NORTH DAKOTA

48° 25' N-101° 21' W

MINOT AFB (KMIB)

Amdt 1 08017

LOC I-MIB <u>109.9</u>	APCH CRS 295°	Rwy Idg 13,197 TDZE 1644 Arpt Elev 1667
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JAL-5013 [USAF]

MINOT AFB (KMIB)

* When ALS inop, increase RVR to 40 and vis to $\frac{3}{4}$ mile.

**** When ALS inop, increase CAT C RVR to 50 and vis to 1 mile, CAT DE RVR to 60 and vis to 1¼ miles.**

ALSF-1



MISSED APPROACH: Climb to 4000 via MIB R-302 direct AMAXE and hold.

ATIS ★
278.8

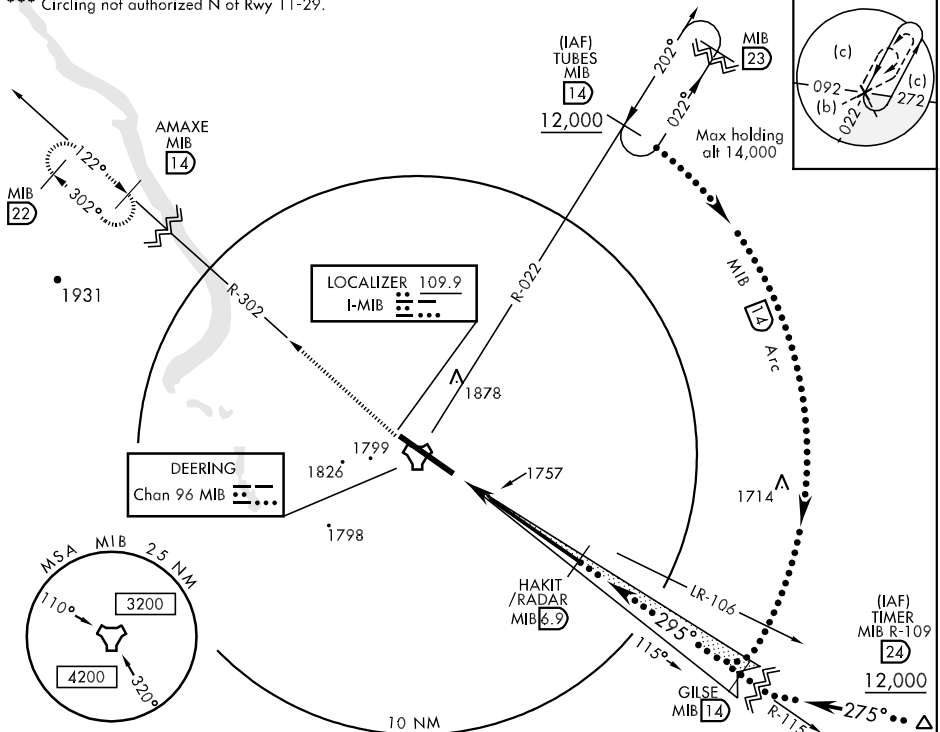
MINOT APP CON
119.6 363.8

MINOT TOWER ★
120.65 253.5

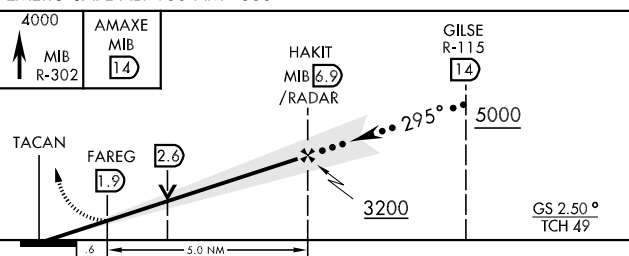
GND CON
134.0 275.8

CLNC DEL
326.2

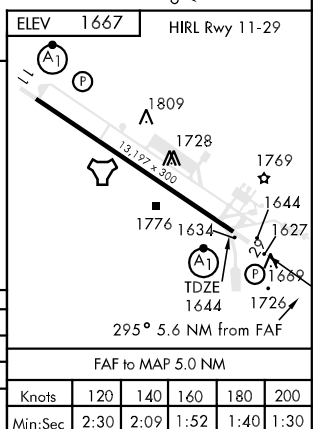
*** Circling not authorized N of Rwy 11-29.



EMERG SAFE ALT 100 NM 4800



CATEGORY	C	D	E
S-ILS 29*	1844/24	200	(200-½)
S-LOC 29**	2020/40	376	(400-¾)
CIRCLING***	2120-1½ 453 (500-1½)	2220-2	553 (600-2)




MINOT, NORTH DAKOTA

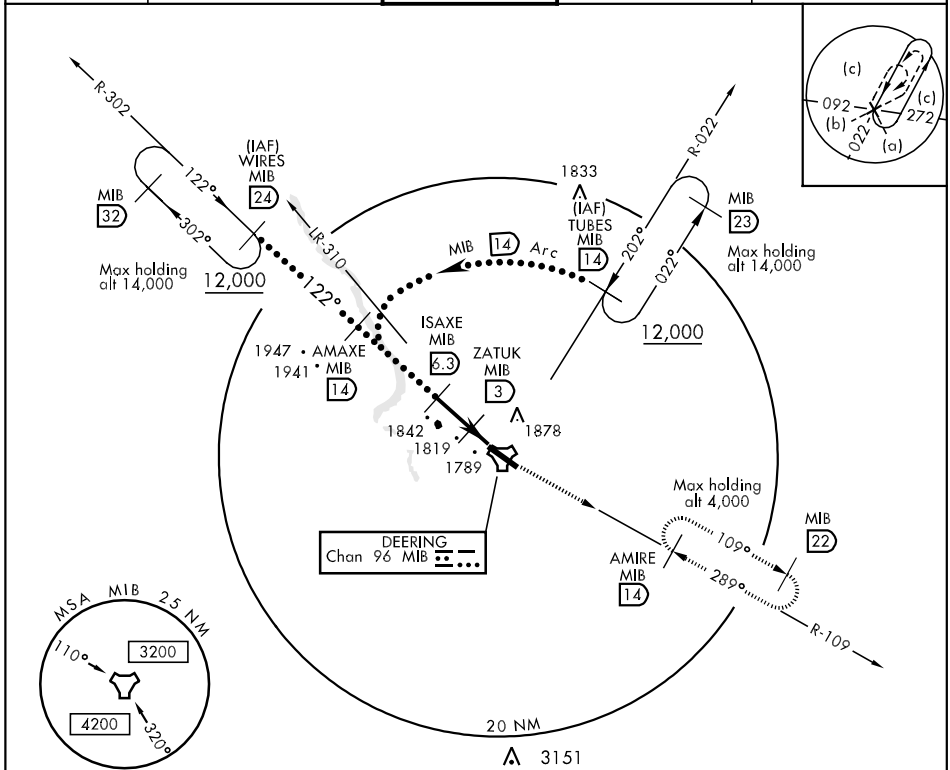
48° 25' N-101° 21' W

MINOT AFB (KMIB)

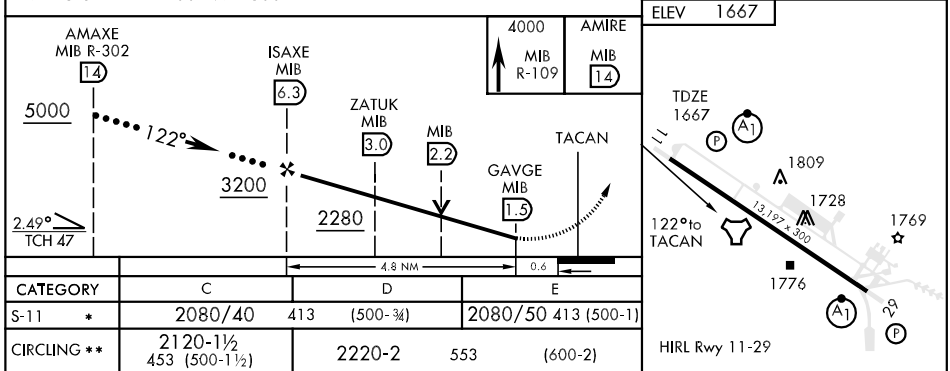
Amdt 1 07354

NC-1, 22 OCT 2009 to 19 NOV 2009

TACAN MIB Chan 96	APCH CRS 122°	Rwy Idg 13,197 TDZE 1667 Arpt Elev 1667	JAL-5013 [USAF]		MINOT AFB (KMIB)	
* When ALS inop, increase CAT CD RVR to 60 and vis to 1¼ miles, CAT E vis to 1½ miles. ** Circling not authorized N of Rwy 11-29.			ALSF-1 	MISSED APPROACH: Climb to 4000 via MIB R-109 direct AMIRE and hold.		
ATIS ★ 278.8	MINOT APP CON 119.6 363.8		MINOT TOWER ★ 120.65 253.5		GND CON 134.0 275.8	CLNC DEL 326.2



EMERG SAFE ALT 100 NM 4800



TACAN Chan 96	APCH CRS 289°	Rwy Idg 13,197 TDZE 1644 Arpt Elev 1667
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JAL-5013 [USAF]

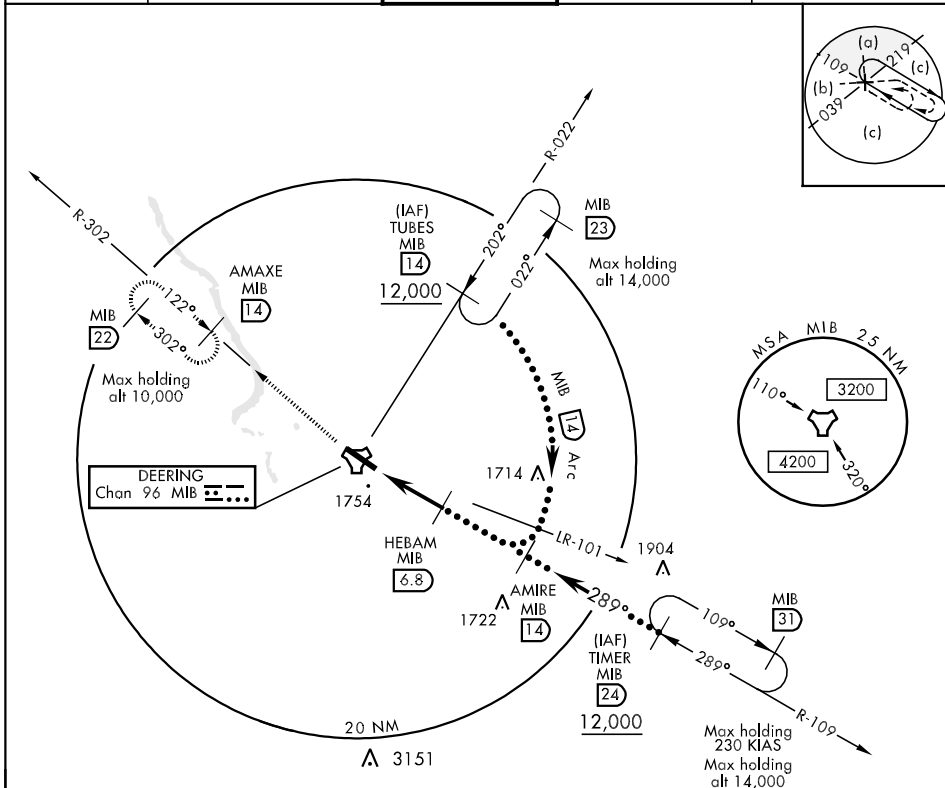
MINOT AFB (KMIB)

* When ALS inop, increase CAT C RVR to 50 and vis to 1 mile,
CAT D RVR to 60 and vis to 1¼ miles, CAT E vis to 1½ miles.
** Circling not authorized N of Rwy 11-29.

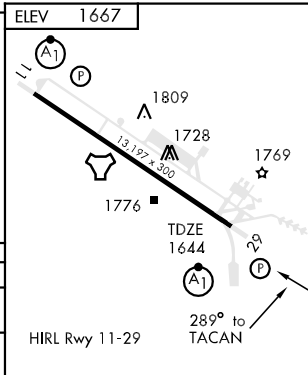
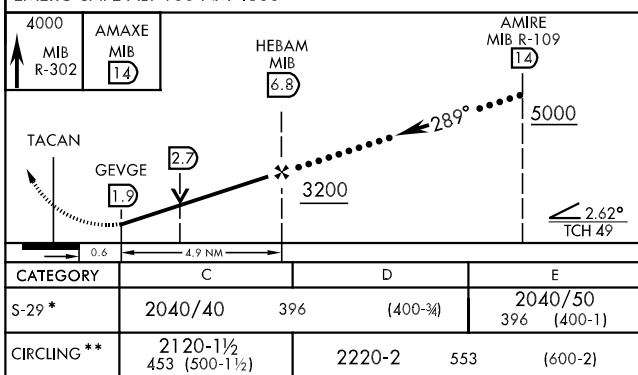



MISSED APPROACH: Climb to 4000 via MIB R-302
direct AMAXE and hold.

ATIS ★ 278.8	MINOT APP CON 119.6 363.8	MINOT TOWER ★ 120.65 253.5	GND CON 134.0 275.8	CLNC DEL 326.2
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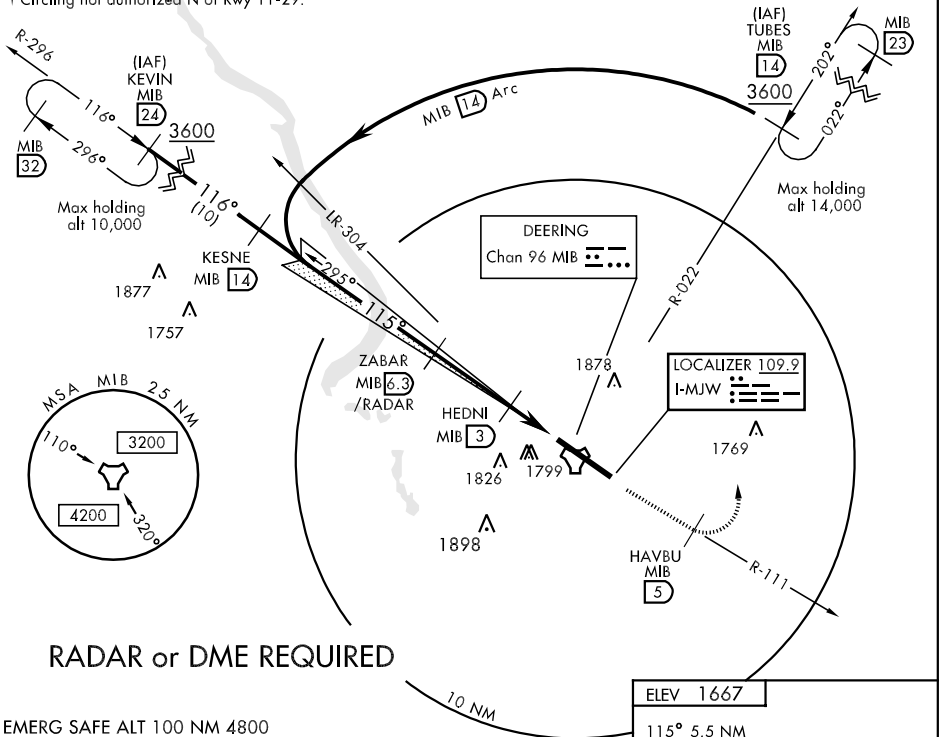


EMERG SAFE ALT 100 NM 4800



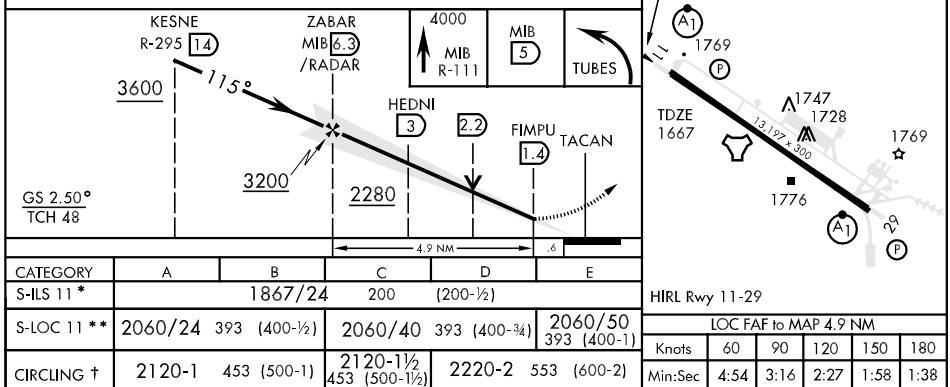
LOC 1-MJW 109.9	APCH CRS 115°	Rwy Idg 13,197 TDZE 1667 Arpt Elev 1667	AL-5013 [USAF]	MINOT AFB (KMIB)
* When ALS inop, increase RVR to 40 and vis to ¾ mile. ** When ALS inop, increase CAT D RVR to 50 and vis to 1 mile, CAT D RVR to 60 and vis to 1¼ miles, CAT E vis to 1½ miles.			ALSF-1 	MISSED APPROACH: Climb to 4000 via MIB R-111 at 5 DME turn left direct TUBES and hold.
ATIS ★ 278.8	MINOT APP CON 119.6 363.8	MINOT TOWER ★ 120.65 253.5	GND CON 134.0 275.8	CLNC DEL 326.2

† Circling not authorized N of Rwy 11-29.



RADAR or DME REQUIRED

EMERG SAFE ALT 100 NM 4800



MINOT, NORTH DAKOTA

48° 25' N-101° 21' W

MINOT AFB (KMIB)

NC-1, 22 OCT 2009 to 19 NOV 2009

LOC I-MIB
109.9

APCH CRS
295°

Rwy Idg **13,197**
TDZE **1644**
Arprt Elev **1667**

AL-5013 [USAF]

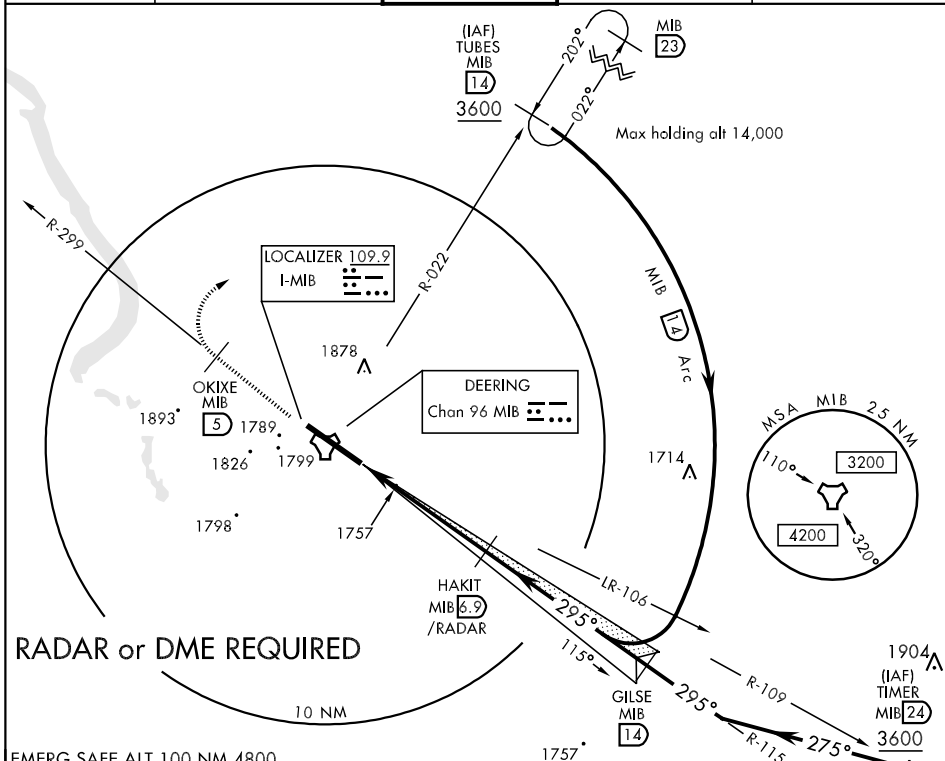
MINOT AFB (KMIB)

* When ALS inop, increase RVR to 40 and vis to $\frac{3}{4}$ mile.
** When ALS inop, increase CAT ABC RVR to 50 and vis to 1 mile,
CAT DE RVR to 60 and vis to $1\frac{1}{4}$ miles.
*** Circling N not authorized.

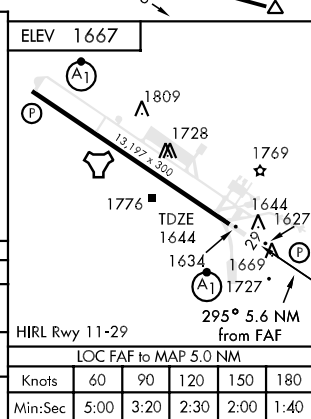


MISSED APPROACH: Climb to 4000 via
MIB R-299. At 5 DME turn right direct
TUBES and hold.

ATIS ★ 278.8	MINOT APP CON 119.6 363.8	MINOT TOWER ★ 120.65 253.5	GND CON 134.0 275.8	CLNC DEL 326.2
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4000 MIB R-299	MIB 5	TUBES	HAKIT MIB 6.9 /RADAR	GILSE R-115 14	3600
TACAN	FAREG 1.9	2.6			
					GS 2.50° TCH 49
CATEGORY	A	B	C	D	E
S-ILS 29 *	1844/24		200	(200- $\frac{1}{2}$)	
S-LOC 29 **	2020/24	376 (400- $\frac{1}{2}$)	2020/40	376 (400- $\frac{3}{4}$)	
CIRCLING***	2120-1	453 (500-1)	2120-1 $\frac{1}{2}$ 453 (500-1 $\frac{1}{2}$)	2220-2	553 (600-2)



TACAN MIB Chan 96	APCH CRS 122°	Rwy Idg 13,197 TDZE 1667 Arprt Elev 1667
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AL-5013 [USAF]

MINOT AFB (KMIB)

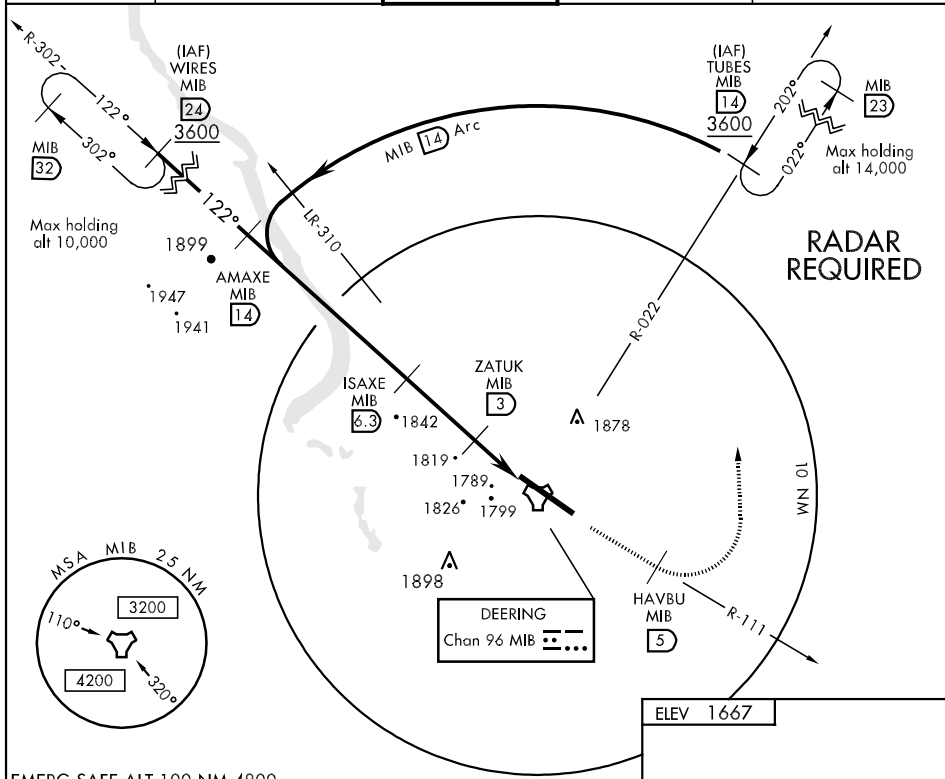
* When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile,
CAT CD RVR to 60 and vis to 1¼ miles, CAT E vis to 1½ miles.
** Circling N not authorized.

ALSF-1



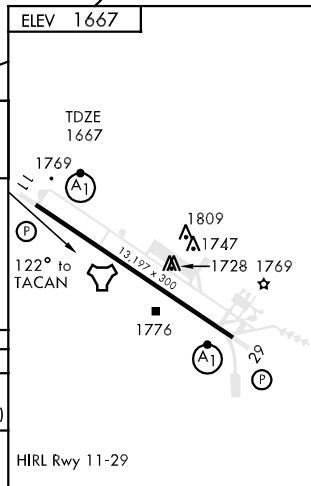
MISSED APPROACH: Climb to 4000 via MIB R-111
at 5 DME turn left direct TUBES and hold.

ATIS ★ 278.8	MINOT APP CON 119.6 363.8	MINOT TOWER ★ 120.65 253.5	GND CON 134.0 275.8	CLNC DEL 326.2
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EMERG SAFE ALT 100 NM 4800

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TACAN MIB Chan 96	APCH CRS 289°	Rwy ldg 13,197 TDZE 1644 Arpt Elev 1667
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AL-5013 [USAF]

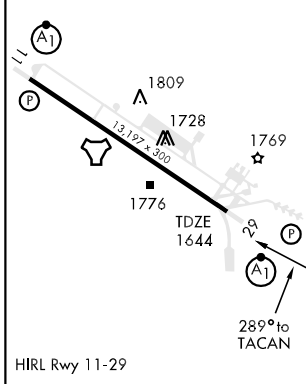
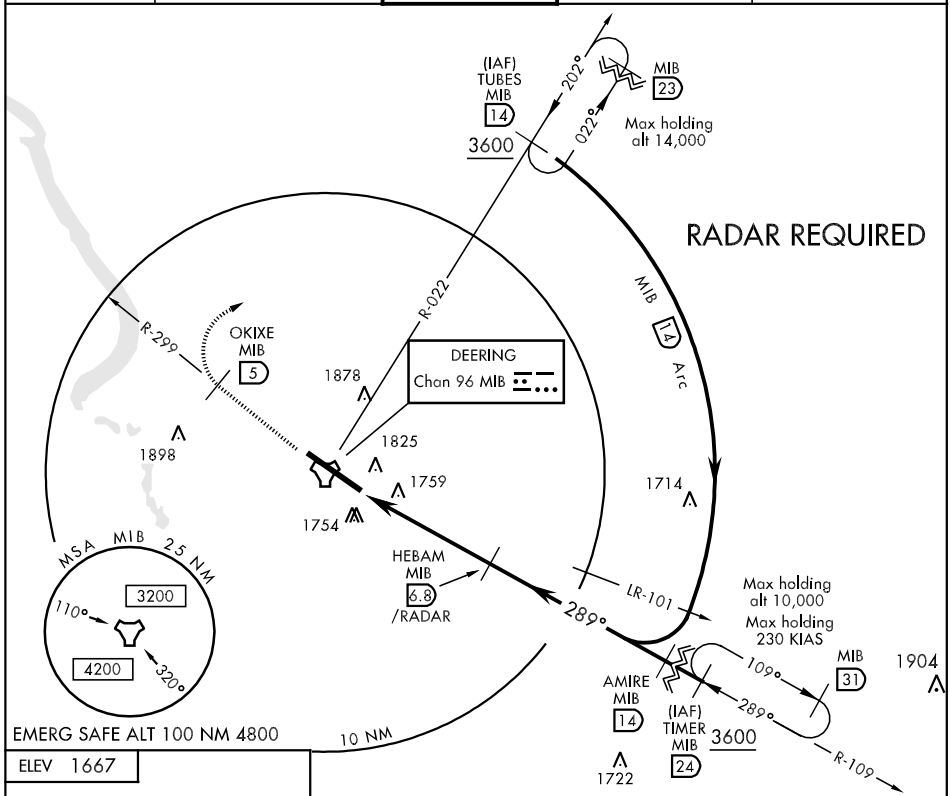
MINOT AFB (KMIB)

* When ALS inop, increase CAT ABC RVR to 50 and vis to 1 mile,
CAT D RVR to 60 and vis to 1¼ miles, CAT E vis to 1½ miles.
** Circling N not authorized.



MISSED APPROACH: Climb to 4000 via MIB R-299.
At OKIXE turn right direct TUBES and hold.

ATIS ★ 278.8	MINOT APP CON 119.6 363.8	MINOT TOWER ★ 120.65 253.5	GND CON 134.0 275.8	CLNC DEL 326.2
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4000

↑

MIB
R-299

OKIXE
MIB

5

↗

HEBAM

6.8 /RADAR

AMIRE R-109

14

TACAN

↻

GEVGE

1.9

2.7

↓

3200

289°

3600

5

4.9 NM

2.62°

TCH 49

CATEGORY	A	B	C	D	E
S-29 *	2040/24 396 (400-½)		2040/40 396 (400-¾)		2040/50 396 (400-1)
CIRCLING**	2120-1 453 (500-1)		2120-1½ 453 (500-1½)	2220-2 553 (600-2)	

AIRPORT DIAGRAM

AL-635 (FAA)

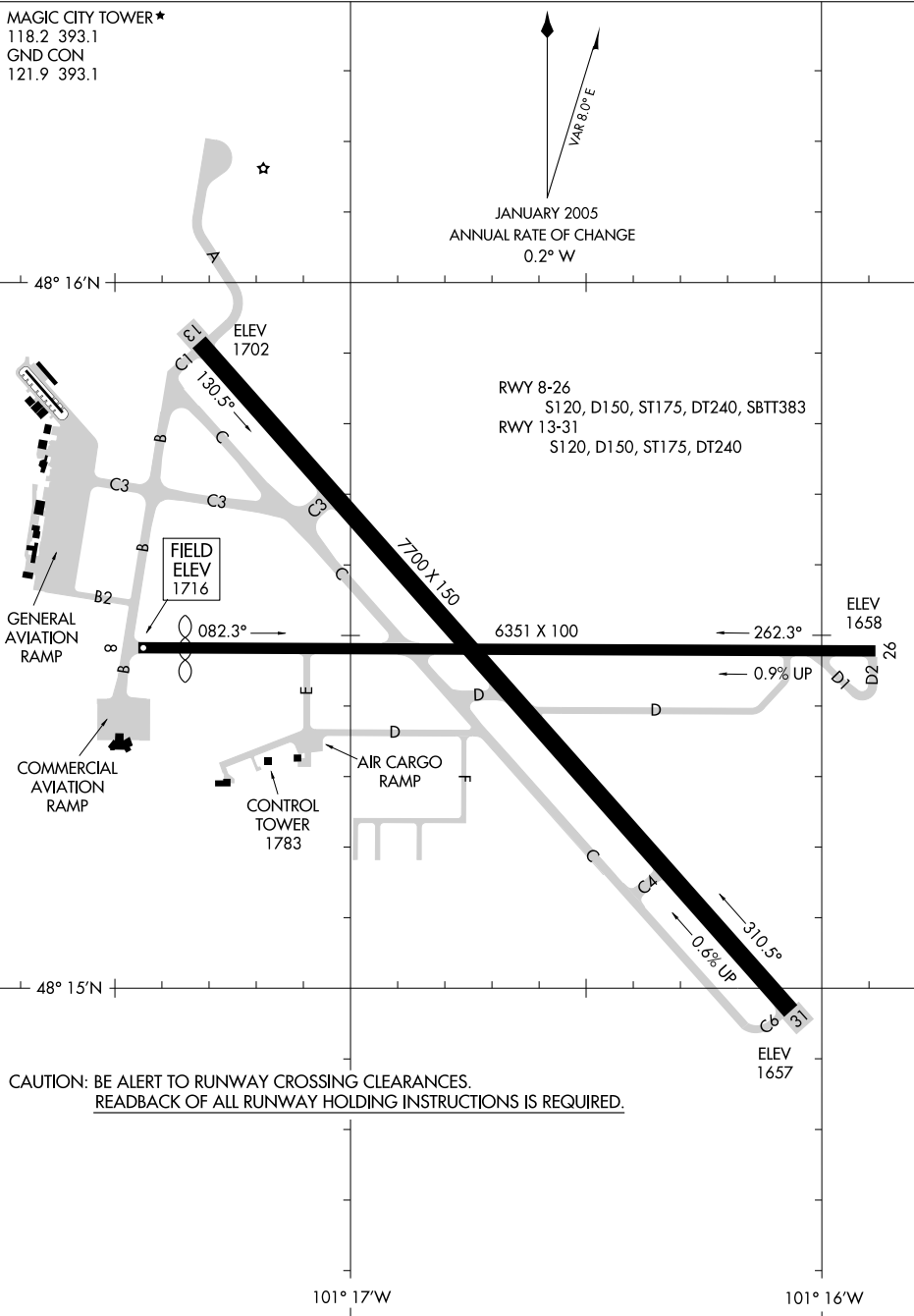
MINOT INTL (MOT)
MINOT, NORTH DAKOTA

MAGIC CITY TOWER ★

118.2 393.1

GND CON

121.9 393.1



NC-1, 22 OCT 2009 to 19 NOV 2009

LOC/DME I-MOT	APP CRS	Rwy Idg	7700
111.9	308°	TDZE	1673
Chan 56		Apt Elev	1716

⚠ If local altimeter setting not received use Minot AFB altimeter setting and increase all DAs/MDAs 40 feet. VDP NA when using Minot AFB altimeter setting.

⚠ DME or RADAR required. For inoperative MALSR increase S-ILS 31 Cat E visibility to RVR 4000, and S-LOC 31 Cats D and E visibility to RVR 5000.

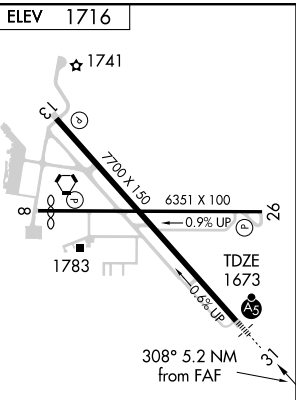
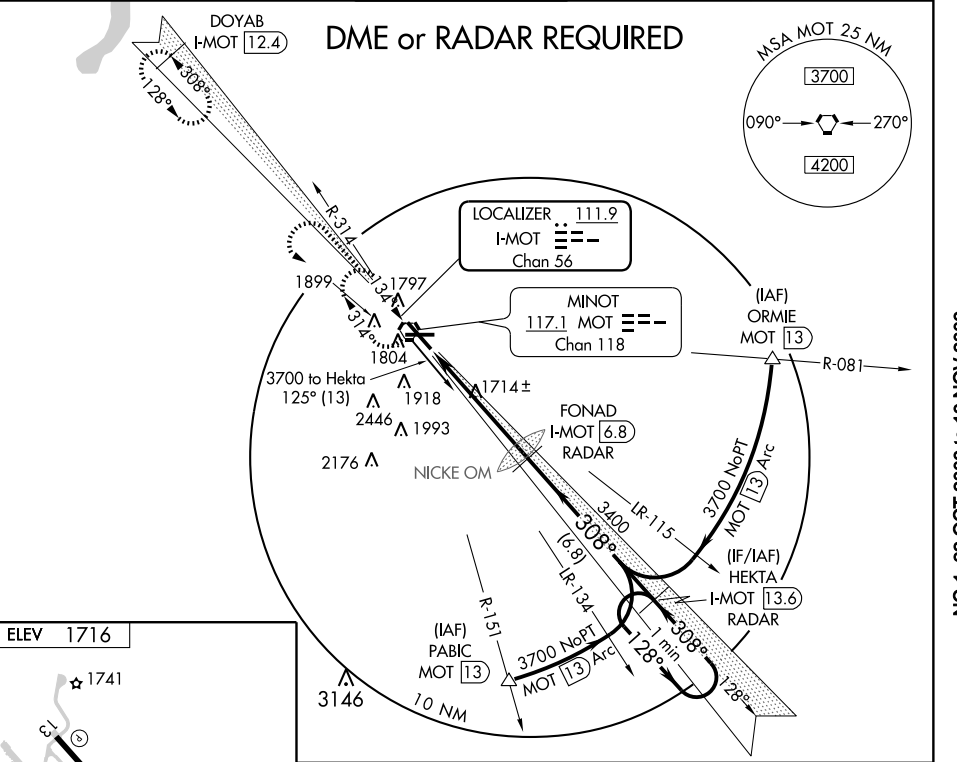
* RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALSR



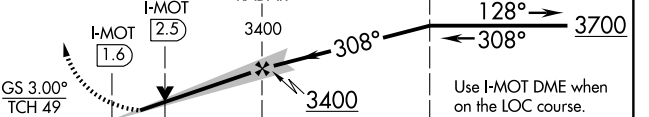
A5

MISSED APPROACH: Climb to 3700 then left turn direct MOT VORTAC and hold.

ASOS	MINOT APP CON *	MAGIC CITY TOWER *	GND CON	UNICOM
118.725	119.6 363.8	118.2 (CTAF) 0 393.1	121.9 393.1	122.95



REIL Rwy 8 and 26 L					
HIRL Rlys 8-26 and 13-31 L					
FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

3700 ↑		MOT  117.1	FONAD I-MOT 6.8	HEKTA I-MOT 13.6 RADAR	One Minute Holding Pattern
 <p>Diagram details: The diagram shows a flight path starting from a point labeled 'GS 3.00° TCH 49'. It proceeds through several navigation points: I-MOT 1.6, I-MOT 2.5, 3400, and 3700. Distances between points are marked as 0.9 NM, 4.3 NM, and 6.8 NM. Angles of 128° and 308° are indicated near the 3700 point. A note states 'Use I-MOT DME when on the LOC course.' Symbols for 'MOT' and 'RADAR' are present.</p>					
CATEGORY	A	B	C	D	E
S-ILS 31	* 1873/24 200 (200-½)				
S-LOC 31	1980/24 307 (300-½)			1980/40 307 (300-¾)	
CIRCLING	2200-1 484 (500-1)		2280-1½ 564 (600-1½)	2280-2 564 (600-2)	2800-3 1084 (1100-3)

NC-1: 22 OCT 2009 to 19 NOV 2009

LOC/DME I-MOT 111.9 Chan 56	APP CRS 128°	Rwy Idg 7700 TDZE 1702 Apt Elev 1716
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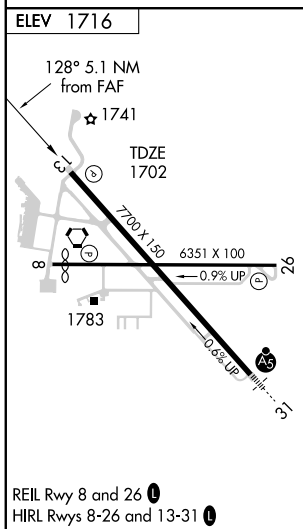
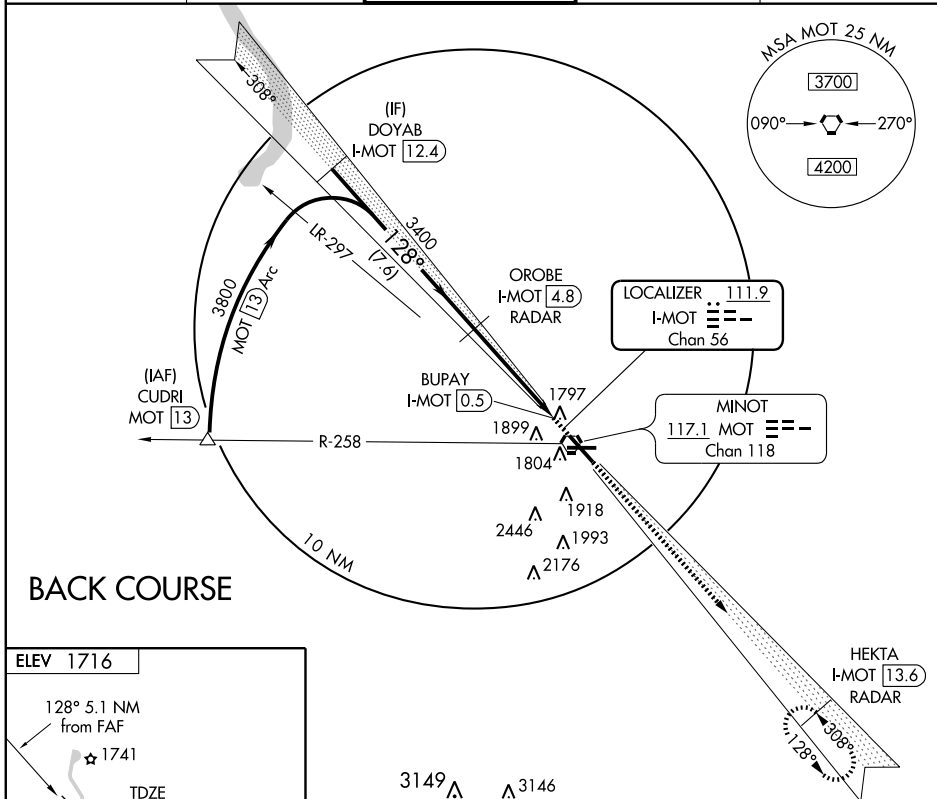
LOC/DME BC RWY 13

MINOT INTL (MOT)

▽ If local altimeter not received use Minot AFB altimeter setting and increase all MDAs 40 feet.

MISSED APPROACH: Climb to 3700 via I-MOT LOC SE course to HEKTA/I-MOT 13.6 DME/RADAR and hold.

ASOS 118.725	MINOT APP CON ★ 119.6 363.8	MAGIC CITY TOWER ★ 118.2 (CTAF) 0 393.1	GND CON 121.9 393.1	UNICOM 122.95
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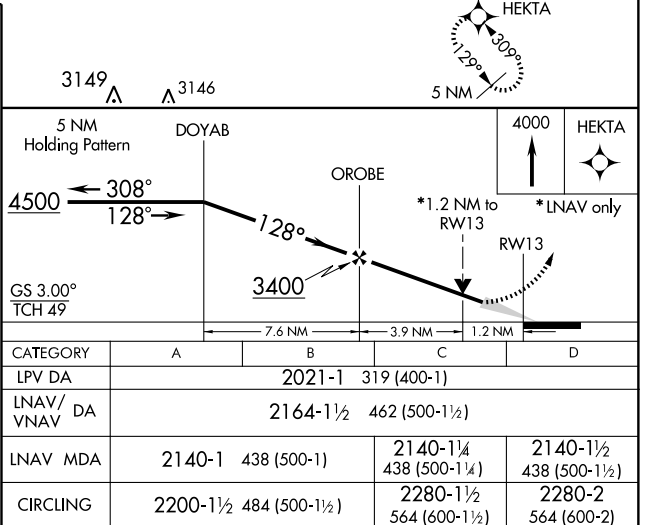
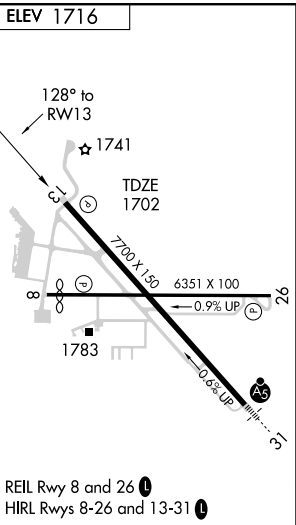
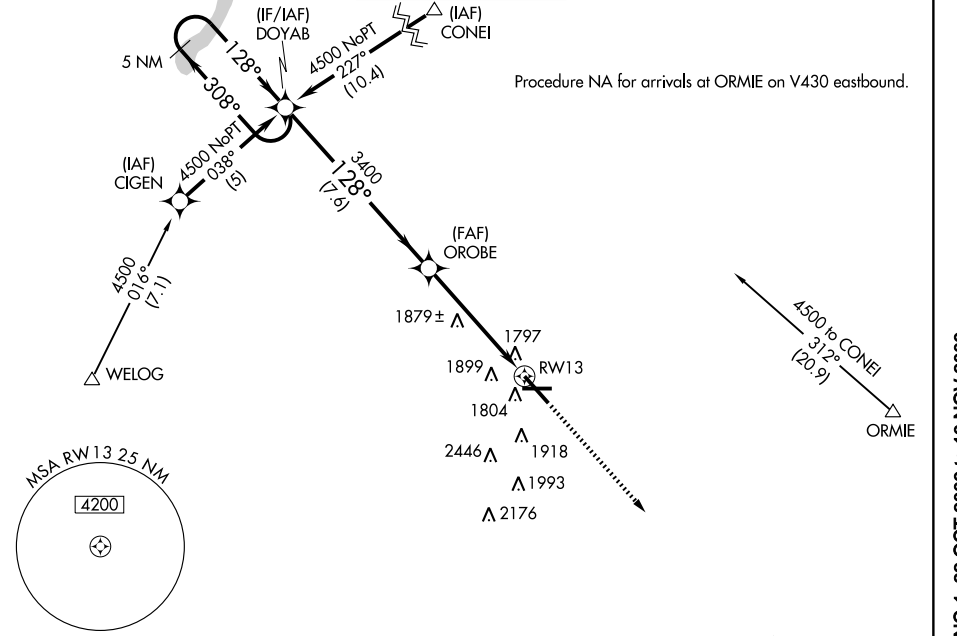
Disregard glide slope indications. Use I-MOT DME when on LOC course.				3700 ↑ I-MOT SE CRS	HEKTA I-MOT 13.6	
DOYAB I-MOT 12.4		OROB I-MOT 4.8 RADAR		BUPAY I-MOT 0.5		
3800		128°		3.05° TCH 49		
Procedure Turn NA		3400		0.8		
7.6 NM		4.3 NM				
CATEGORY	A	B	C	D		
S-13	2060-1 358 (400-1)				2060-1¼ 358 (400-1¼)	
CIRCLING	2200-1 484 (500-1)		2280-1½ 564 (600-1½)		2280-2 564 (600-2)	

▼ If local altimeter not received, use Minot AFB altimeter setting and increase all DAs/MDAs 40 feet. Baro-VNAV NA below -18°C (0°F).

▲ VDP and Baro-VNAV NA when using Minot AFB altimeter setting. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 4000 direct HEKTA and hold.

ASOS 118.725	MINOT APP CON ★ 119.6 363.8	MAGIC CITY TOWER ★ 118.2 (CTAF) 0 393.1	GND CON 121.9 393.1	UNICOM 122.95
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REIL Rwy 8 and 26 **1**
HIRL Rwy 8-26 and 13-31 **1**

WAAS Chan 66099 W31A	APP CRS 308°	Rwy Idg TDZE Apt Elev	7700 1673 1716
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RNAV (GPS) RWY 31
MINOT INTL (MOT)

MINOT INTL (MOT)

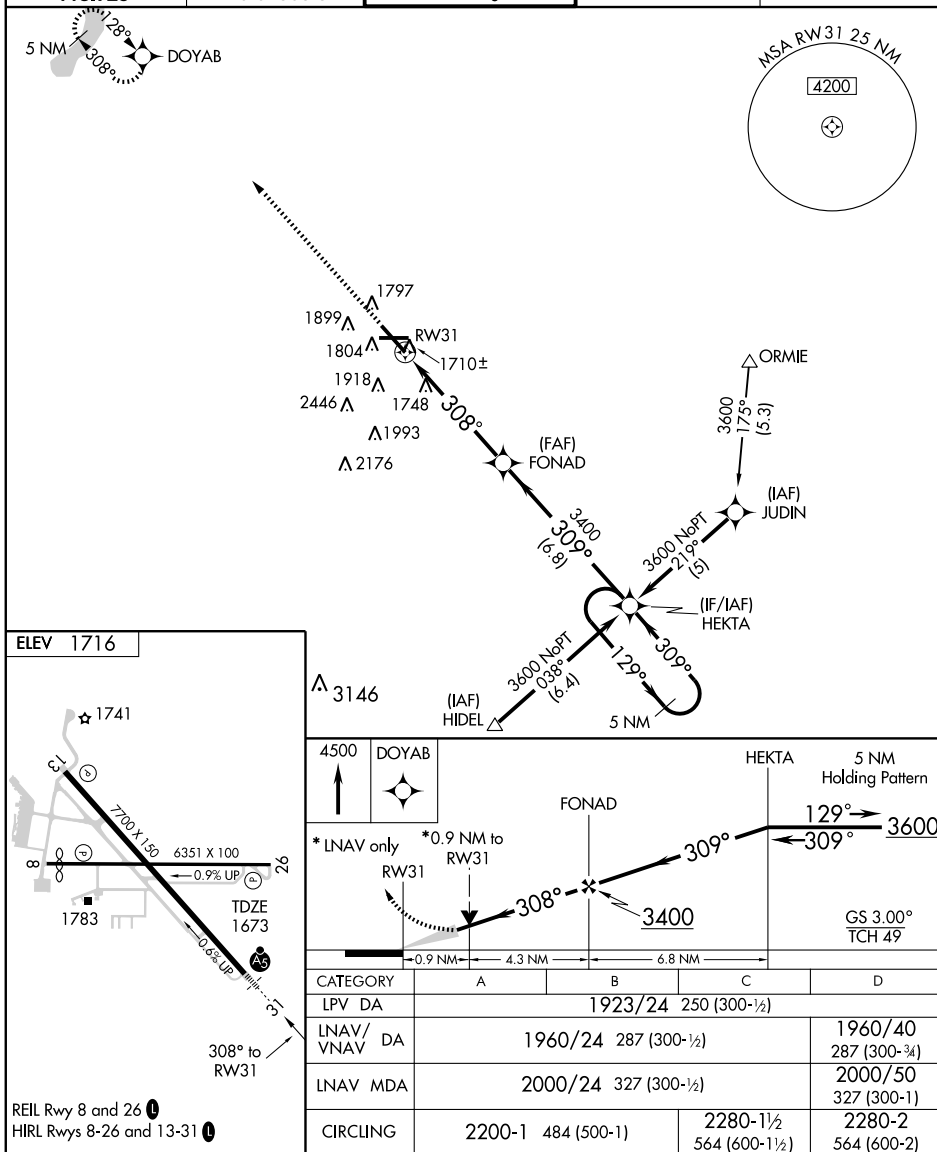
T If local altimeter setting not received use Minot AFB altimeter setting and increase all DAs/MDAs 40 feet. Baro-VNAV NA below -18°C (0°F). VDP and Baro-VNAV NA when using Minot AFB altimeter setting. For nonoperative MALSR increase LPV visibility to RVR 5000 all Cats, LNAV/VNAV Cat D visibility to RVR 5000. Nonoperative table does not apply to LNAV Cat D. DME/DME RNP-0.3 NA.

MALSR



MISSED APPROACH: Climb to 4500 direct DOYAB and hold.

ASOS 118.725	MINOT APP CON★ 119.6 363.8	MAGIC CITY TOWER★ 118.2 (CTAF) 0 393.1	GND CON 121.9 393.1	UNICOM 122.95
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VORTAC MOT <u>117.1</u> Chan 118	APP CRS 067°	Rwy Idg 5958 TDZE 1712 Apt Elev 1716
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VOR or GPS RWY 8
MINOT INTL (MOT)

MINOT INTL (MOT)



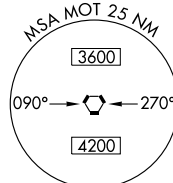
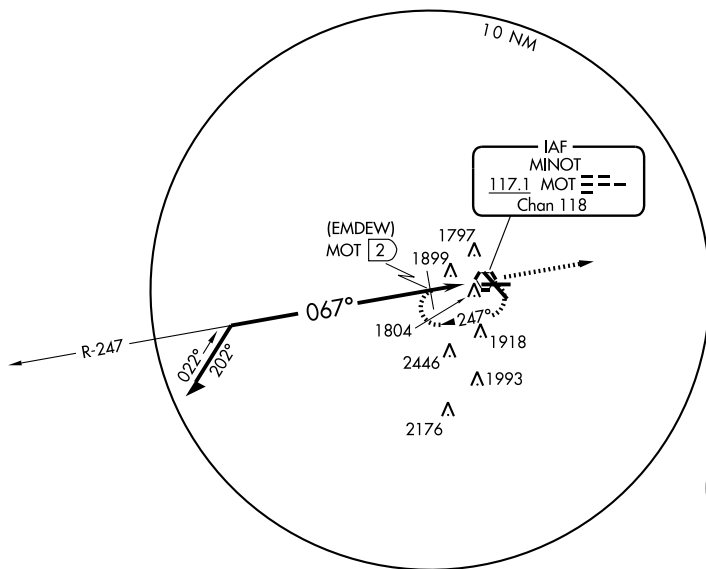
MISSED APPROACH: Climb to 3500 then direct MOT VORTAC and hold.

ASOS
118,725

MINOT APP CON ★
119.6 363.8

MAGIC CITY TOWER★
118.2 (CTAF) **L** 393.1



GND CON
121.9 393.1

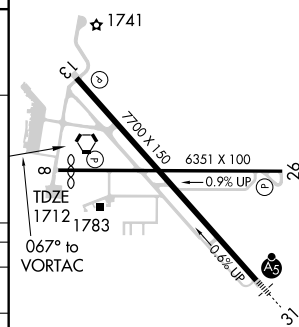
UNICOM
122.95

Remain
within 10 NM

3149 Δ 3146 Δ

ELEV 1716

3500	MOT
	
	<u>117.1</u>



CATEGORY	A	B	C	D
S-8	2360-1	648 (700-1)	2360-1 $\frac{3}{4}$ 648 (700-1 $\frac{3}{4}$)	2360-2 648 (700-2)
CIRCLING	2360-1	644 (700-1)	2360-1 $\frac{3}{4}$ 644 (700-1 $\frac{3}{4}$)	2360-2 644 (700-2)

DME MINIMUMS

S-8	2160-1 448 (500-1)	2160-1¼ 448 (500-1¼)	2160-1½ 448 (500-1½)
CIRCLING	2200-1 484 (500-1)	2280-1½ 564 (600-1½)	2280-2 564 (600-2)

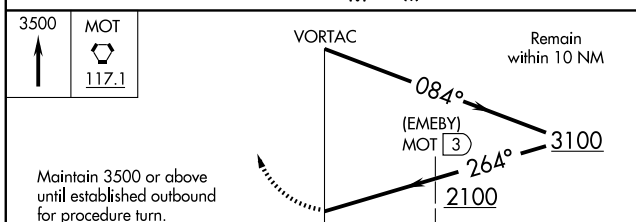
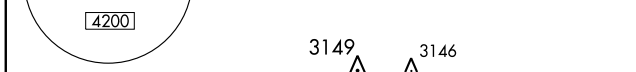
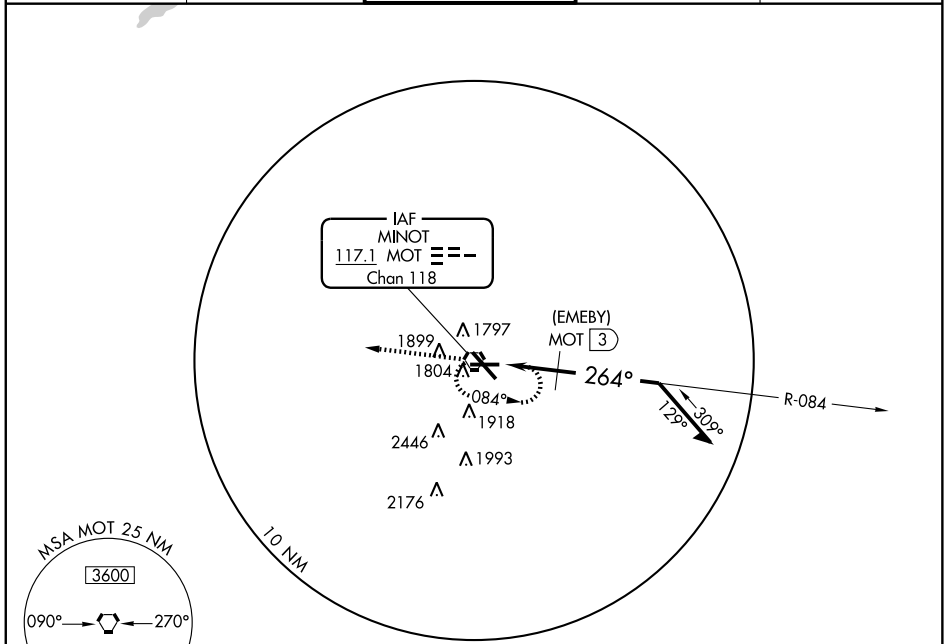
REIL Rwy 8 and 26 **L**
HIRL Rwy 8-26 and 13-31 **L**

VORTAC MOT 117.1 Chan 118	APP CRS 264°	Rwy Idg TDZE 6351 Apt Elev 1682
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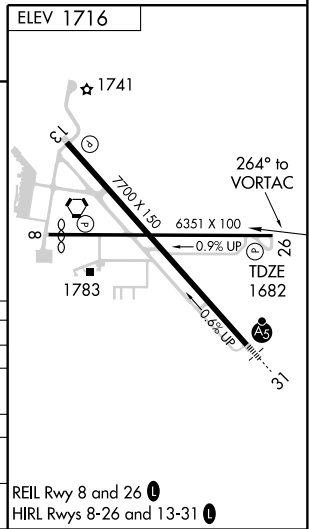
VOR or GPS RWY 26

MINOT INTL (MOT)

V			MISSED APPROACH: Climb to 3500 then direct MOT VORTAC and hold.	
ASOS 118.725	MINOT APP CON ★ 119.6 363.8	MAGIC CITY TOWER ★ 118.2 (CTAF) 0 393.1	GND CON 121.9 393.1	UNICOM 122.95



CATEGORY	A	B	C	D
S-26	2100-1	418 (400-1)	2100-1 ¼	418 (400-1 ¼)
CIRCLING	2200-1	484 (500-1)	2280-1 ½	2280-2
			564 (600-1 ½)	564 (600-2)
DME MINIMA				
S-26	2040-1	358 (400-1)	2040-1 ¼	358 (400-1 ¼)
CIRCLING	2200-1	484 (500-1)	2280-1 ½	2280-2
			564 (600-1 ½)	564 (600-2)


REIL Rwy 8 and 26
HIRL Rwy 8-26 and 13-31

VORTAC MOT <u>117.1</u> Chan 118	APP CRS 134°	Rwy Idg 7700 TDZE 1702 Apt Elev 1716
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VOR RWY 13
MINOT INTL (MOT)



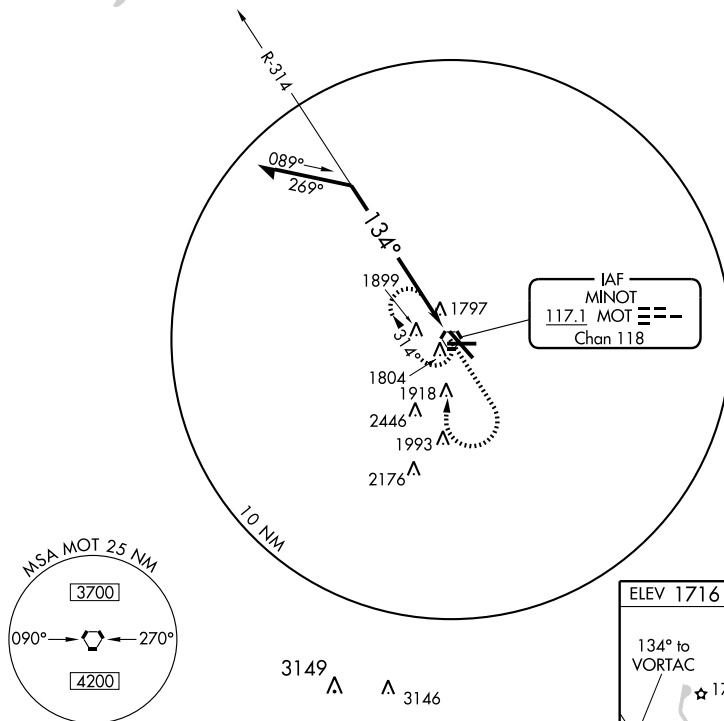
MISSED APPROACH: Climb to 3500 then right turn direct
MOT VORTAC and hold.

ASOS
118,725

MINOT APP CON ★
119.6 363.8

MAGIC CITY TOWER ★
118.2 (CTAF) **L** 393.1

GND CON
121.9 393.1

UNICOM
122.95

Remain
within 10 NM

VORTAC

3500

MOT
17

1.4 NM

3500



MOT

117.1

ELEV 1716

134° to
VORTAC

741

TDZE
1702

7700

150



1

4 1 1

1240

6 and 1

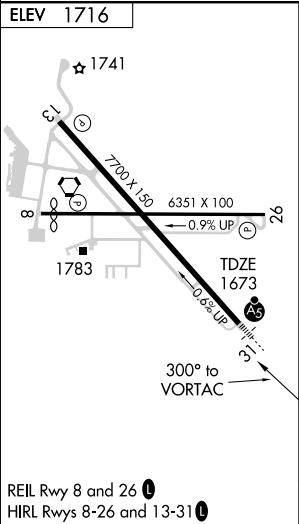
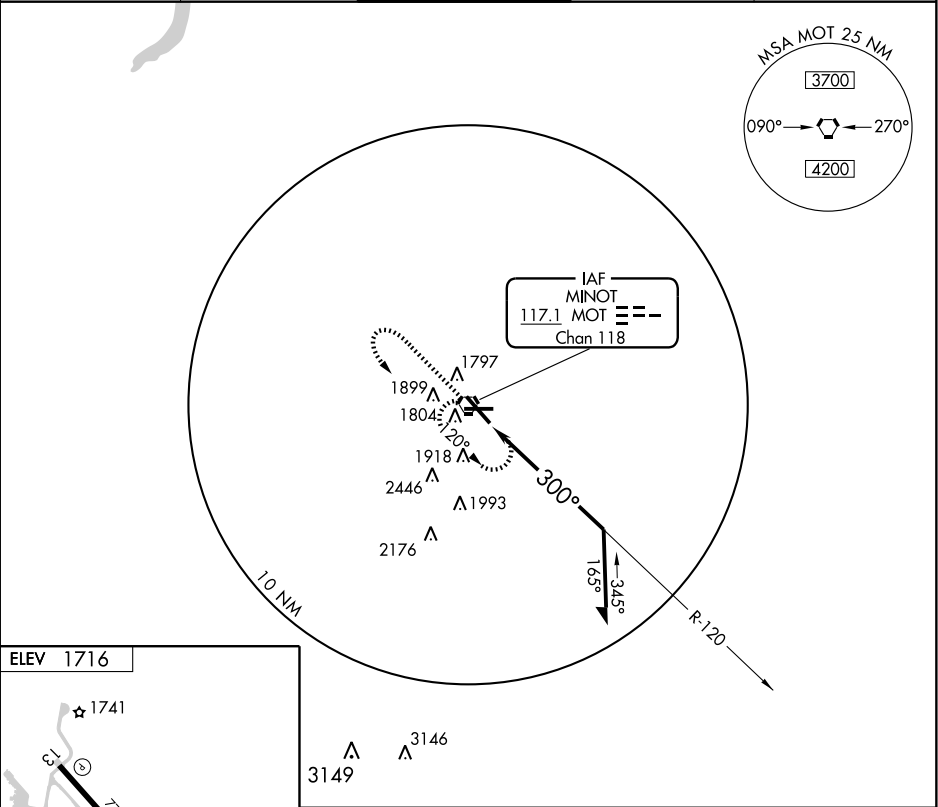
RFII Rwy 8 and 26 **L**HIRE Rows 8-26 and 13-31 **L**


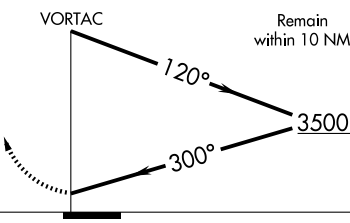
✈

MALSR

MISSED APPROACH: Climb to 3500 then left turn direct MOT VORTAC and hold.

ASOS 118.725	MINOT APP CON ★ 119.6 363.8	MAGIC CITY TOWER ★ 118.2 (CTAF) 393.1	GND CON 121.9 393.1	UNICOM 122.95
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3500 ↑	MOT  <u>117.1</u>			
CATEGORY	A	B	C	D
S-31	2200/24	527 (500-½)	2200/50 527 (500-1)	2200/60 527 (500-1¼)
CIRCLING	2200-1	484 (500-1)	2280-1½ 564 (600-1½)	2280-2 564 (600-2)

APP CRS
311°

Rwy Idg	3121
TDZE	1649
Apt Elev	1649

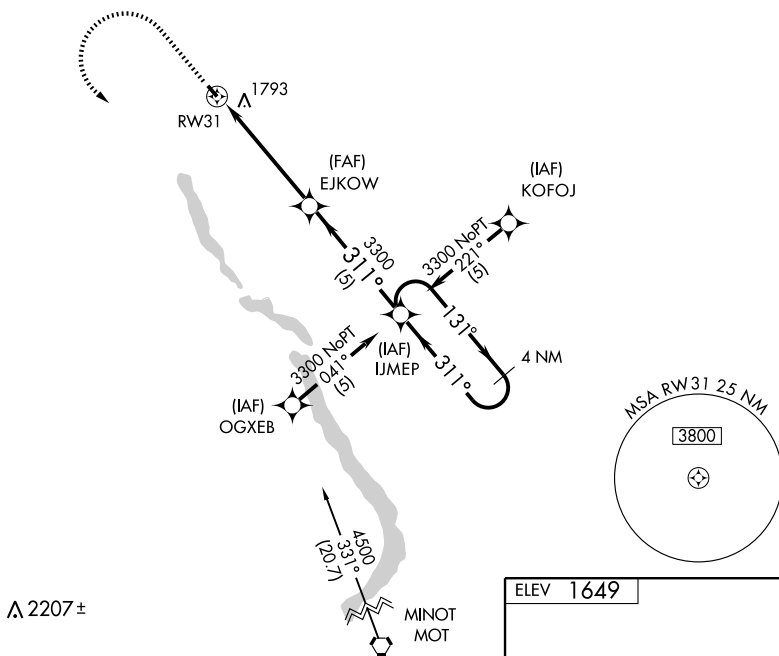
RNAV (GPS) RWY 31
MOHALL MUNI (HBC)

MOHALL MUNI (HBC)

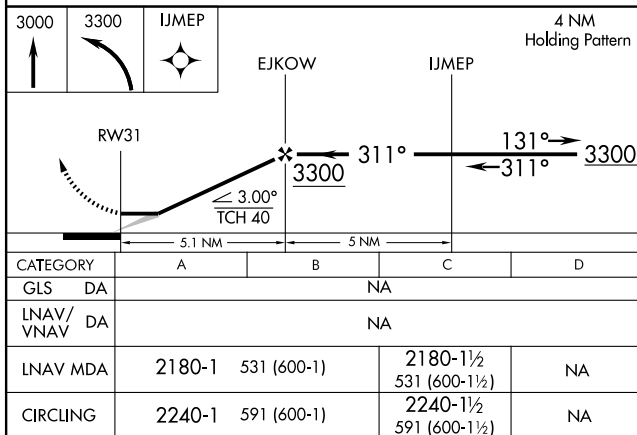
A NA Use Minot Intl altimeter setting.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3000 then climbing left turn to 3300 direct JMEP WP and hold.

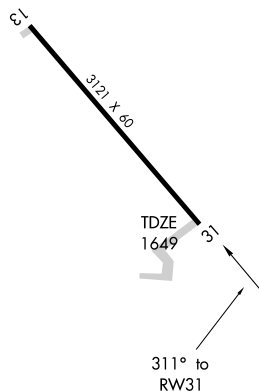
MINOT APP CON ★
119.6 363.8

UNICOM
122.8 (CTAF) **L**

NC-1. 22 OCT 2009 to 19 NOV 2009



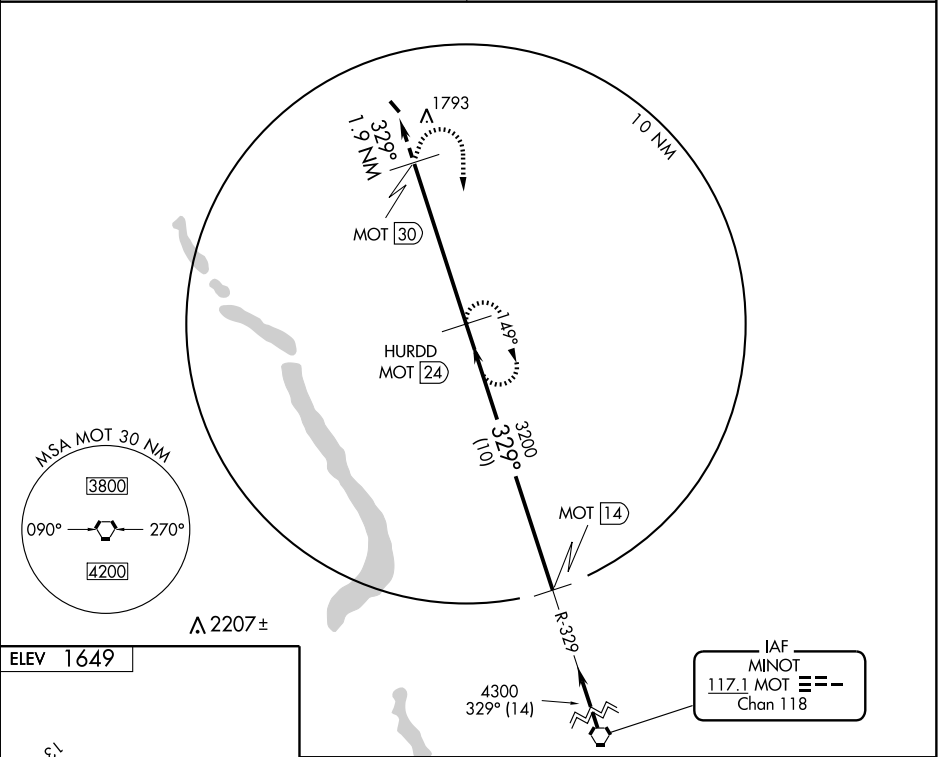
ELEV 1649

LIRL Rwy 13-31 **L**

VORTAC MOT	APP CRS	Rwy Idg	3121
117.1	329°	TDZE	1649
Chan 118		Apt Elev	1649

VOR/DME RWY 31
MOHALL MUNI (HBC)

▲ NA Use Minot Intl altimeter setting.	MISSED APPROACH: Climbing right turn to 3200 via MOT R-329 to HURDD 24 DME and hold.
MINOT APP CON ★ 119.6 363.8	UNICOM 122.8 (CTAF) 0



<div><div><div>ELEV 1649</div><div>LIRL Rwy 13-31 0</div></div><div><div>31</div><div>3121 x 60</div><div>TDZE 1649</div><div>Fly Visual 329° 1.9 NM</div></div></div>				
<div><div><div>3200</div><div>HURDD MOT 24</div><div>MOT R-329</div></div><div><div>MOT 30</div><div>Fly visual 329° 1.9 NM</div></div><div><div>HURDD MOT 24</div><div>3200</div></div><div><div>MOT 14</div><div>4300</div><div>329°</div><div>Procedure Turn NA</div></div></div>				
<div><div>1.9</div><div>6 NM</div><div>10 NM</div></div>				
CATEGORY	A	B	C	D
S-31	2800-2	1151 (1200-2)	2800-3 1151 (1200-3)	NA
CIRCLING	2800-2	1151 (1200-2)	2800-3 1151 (1200-3)	NA

APP CRS	Rwy Idg	3160
262°	TDZE	1117
	Apt Elev	1117

RNAV (GPS) RWY 26

NORTHWOOD MUNI-VINCE FIELD (4V4)

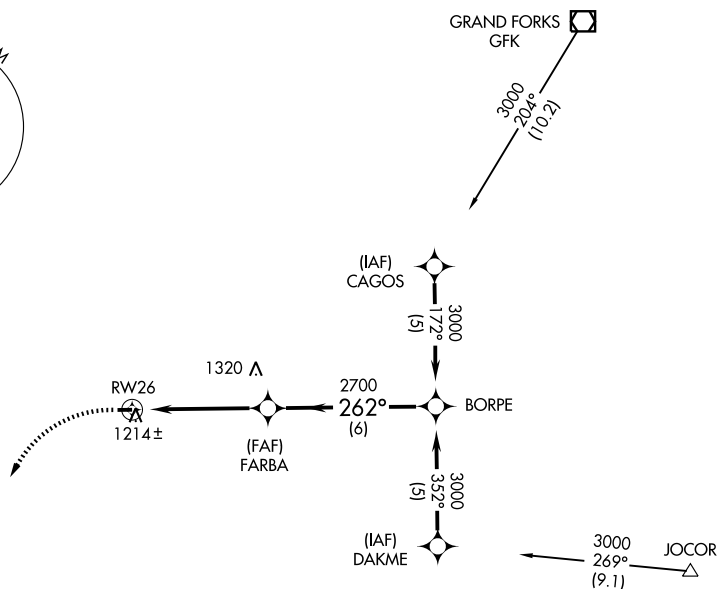
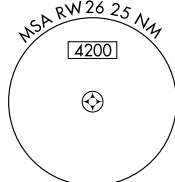
A NA	DME/DME RNP- 0.3 NA. Use Grand Forks Intl altimeter setting. Procedure NA at night.
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MISSED APPROACH: Climb to 1800 then climbing left turn to 3500 direct UNIZY WP and hold.

GRAND FORKS APP CON
118.1 318.1

UNICOM
122.8 (CTAF) **L**




Λ 2236

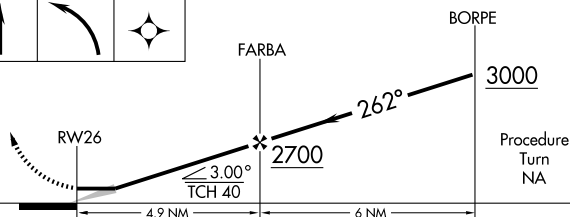


NC-1. 22 OCT 2009 to 19 NOV 2009

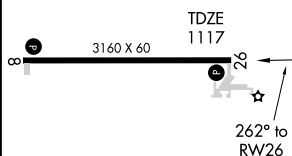
UNIZY



1800	3500	UNIZY
		



ELEV 1117




CATEGORY	A	B	C	D
LNAV MDA	1660-1	543 (600-1)	NA	
CIRCLING	1720-1	603 (700-1)	NA	

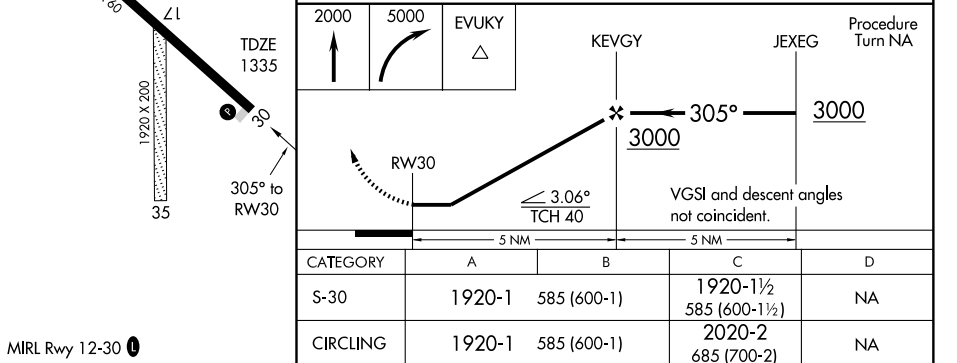
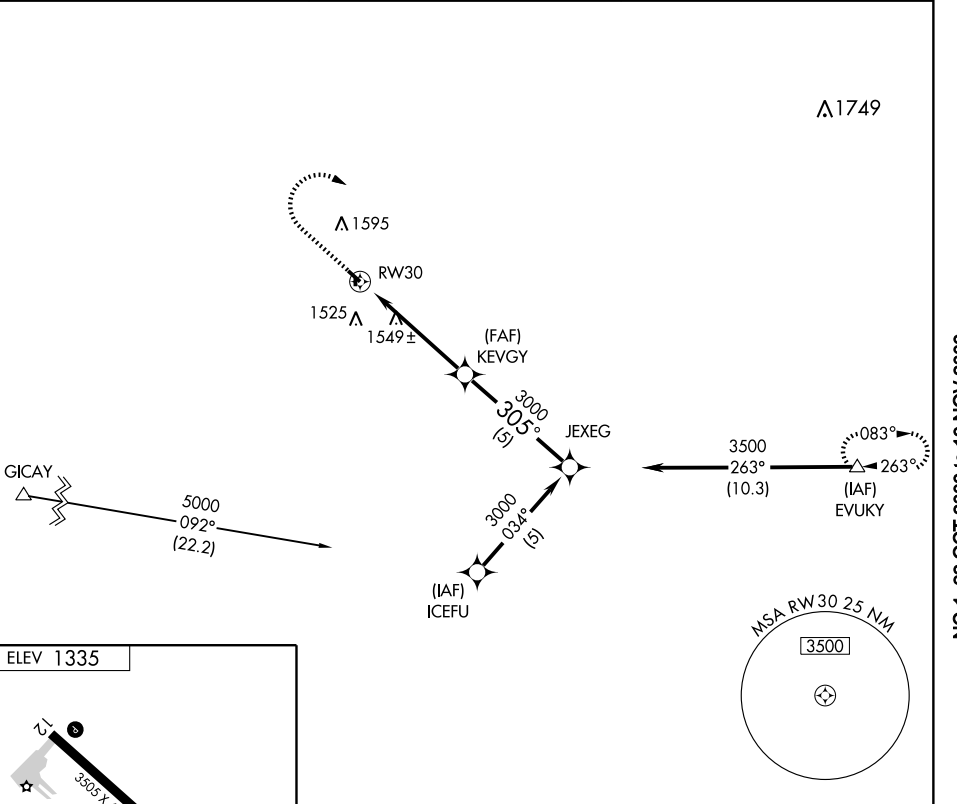
MIRL Rwy 8-26 **L**

▼ Use Aberdeen altimeter setting.

MISSED APPROACH: Climb to 2000 then climbing right turn to 5000 direct EVUKY WP and hold.

▲ NA

AWOS-3 118.675	MINNEAPOLIS CENTER 124.2 270.3	CTAF 122.9 
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VORTAC HML 112.4 Chan 71	APP CRS 301°	Rwy Idg 3800 TDZE 795 Apt Elev 795
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VOR or GPS RWY 33
PEMBINA MUNI (PMB)

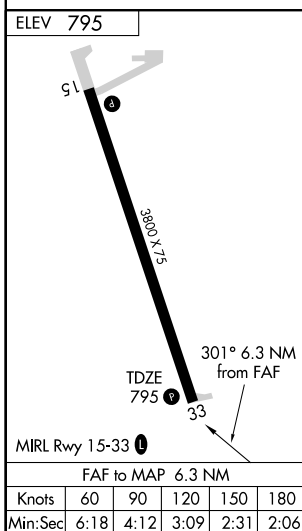
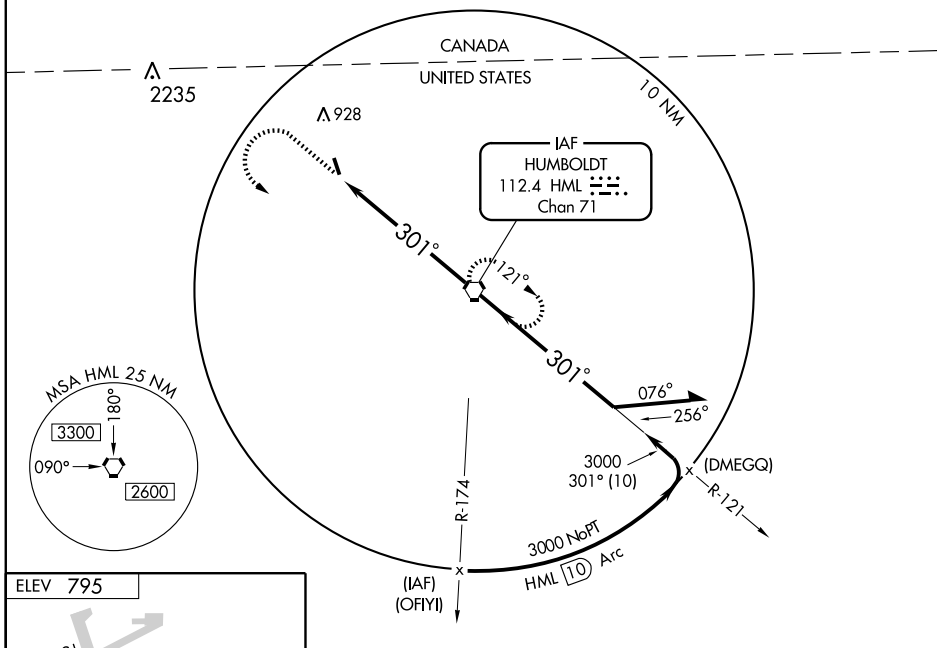
T Obtain local altimeter setting on CTAF; when not received use Hallock altimeter setting.

MISSED APPROACH: Climb to 1300 then climbing left turn to 3000 direct HML VORTAC and hold.

HALLOCK AWOS-3
126.475

MINNEAPOLIS CENTER
132.15 269.6

PRINCETON RADIO
122.1R

UNICOM
122.8 (CTAF) **L**

1300 3000 HML 112.4

VORTAC

121°

301°

3000

HML 6.3

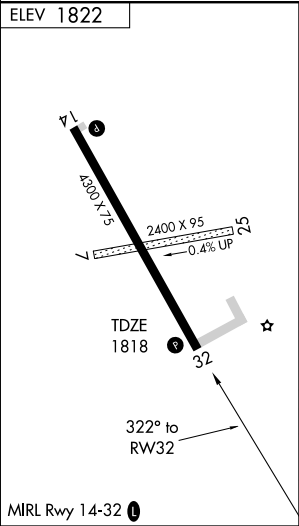
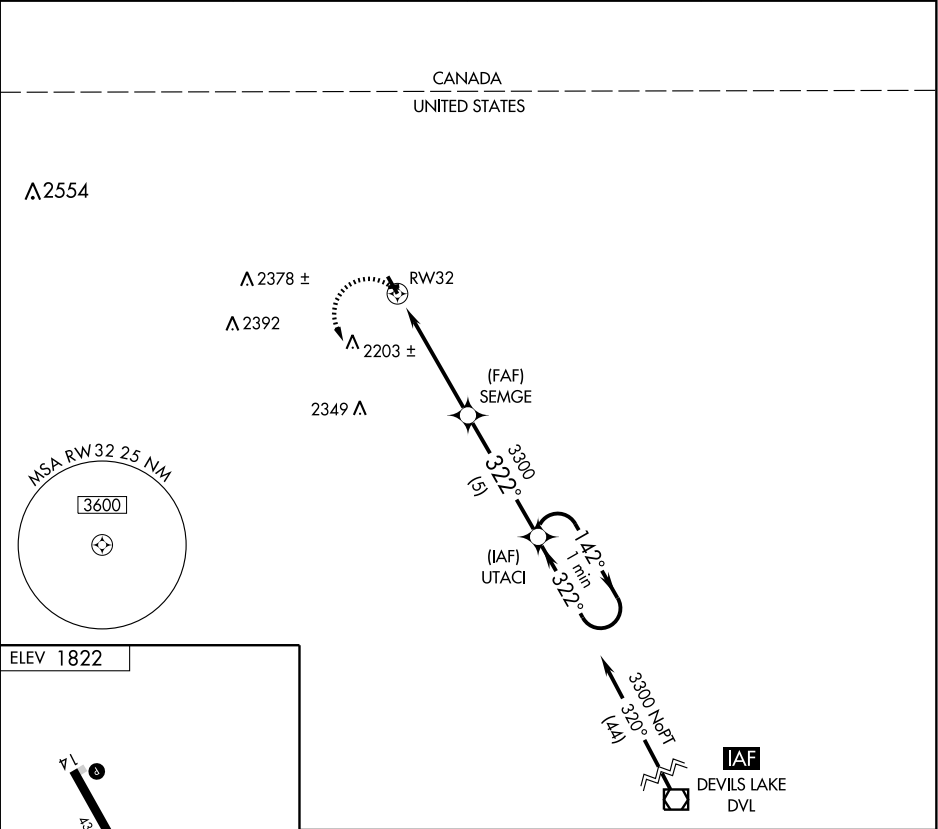
6.3 NM

Remain within 10 NM

APP CRS	Rwy Idg	4300
322°	TDZE	1818
	Apt Elev	1822

Use Devils Lake altimeter setting. NA IAF ARM APPROACH MODE PRIOR TO IAF.	MISSED APPROACH: Climbing left turn to 4000 direct UTACI WP and hold.
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AWOS-3 118.125	DEVILS LAKE AWOS-3 125.875	MINNEAPOLIS CENTER 127.6 279.6	UNICOM 122.8 (CTAF) Ø
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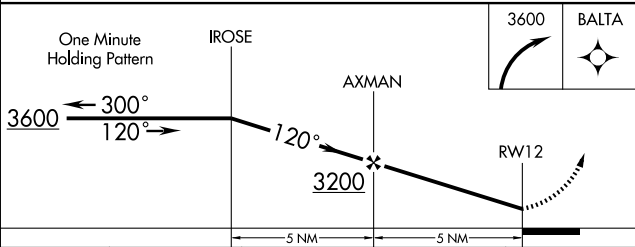
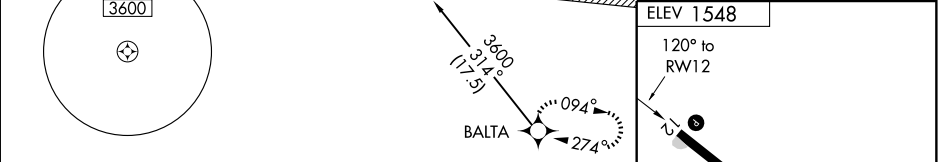
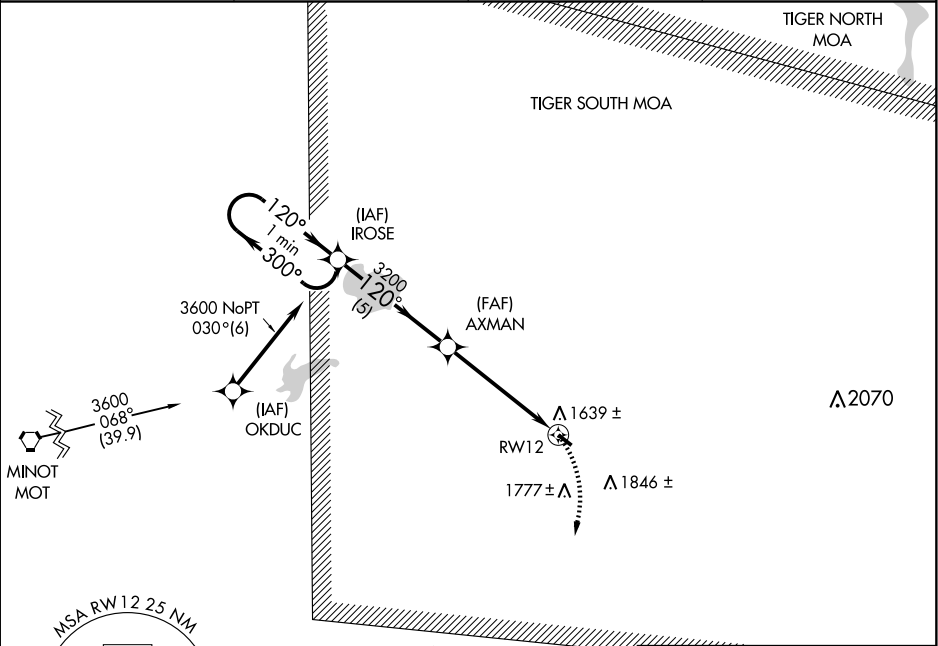
4000	UTACI	One Minute Holding Pattern			
SEMGE		UTACI		142° 3300	
RW32		3300		← 322°	
5 NM		5 NM			
CATEGORY	A	B	C	D	
S-32	2340-1	522 (600-1)	2340-1½ 522 (600-1½)	2340-1¾ 522 (600-1¾)	
CIRCLING	2460-1	638 (700-1)	2480-1¾ 658 (700-1¾)	2660-2¾ 838 (900-2¾)	

NA

Use Devils Lake altimeter setting.

MISSED APPROACH: Climbing right turn to 3600 direct BALTA WP and hold.

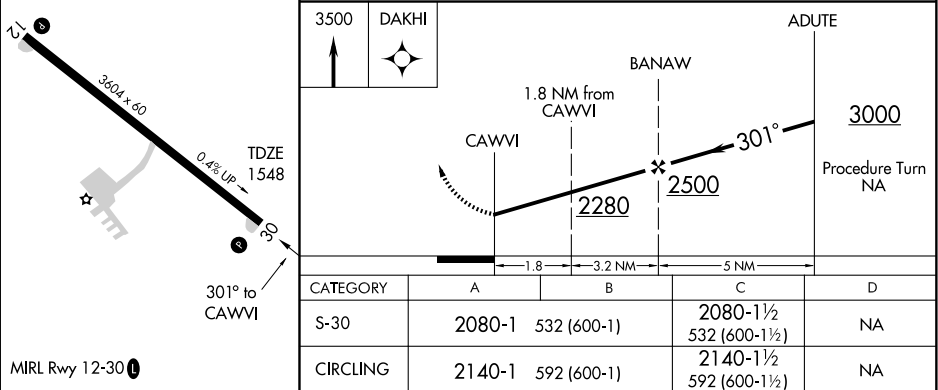
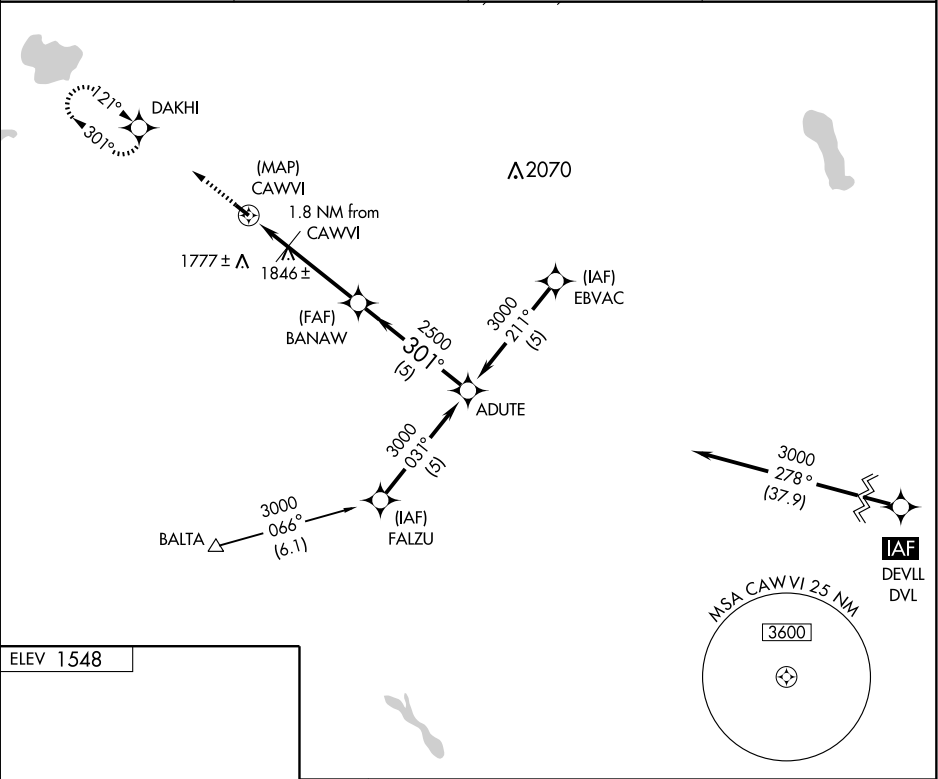
AWOS-3 118.475	DEVILS LAKE AWOS-3 125.875	GRAND FORKS RADIO 122.2	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
S-12	2020-1	480 (500-1)	2020-1 ¼ 480 (500-1 ¼)	NA
CIRCLING	2160-1	612 (700-1)	2160-1 ¾ 612 (700-1 ¾)	NA

MIRL Rwy 12-30

Use Devils Lake altimeter setting. ▲ NA IAF ARM APPROACH MODE PRIOR TO IAF.		MISSED APPROACH: Climb to 3500 direct DAKHI WP and hold.	
AWOS-3 118.475	DEVILS LAKE AWOS-3 125.875	GRAND FORKS RADIO 122.2	UNICOM 122.8 (CTAF)

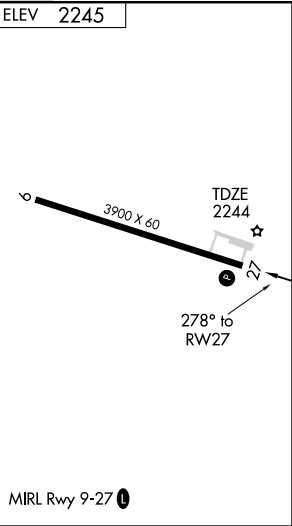
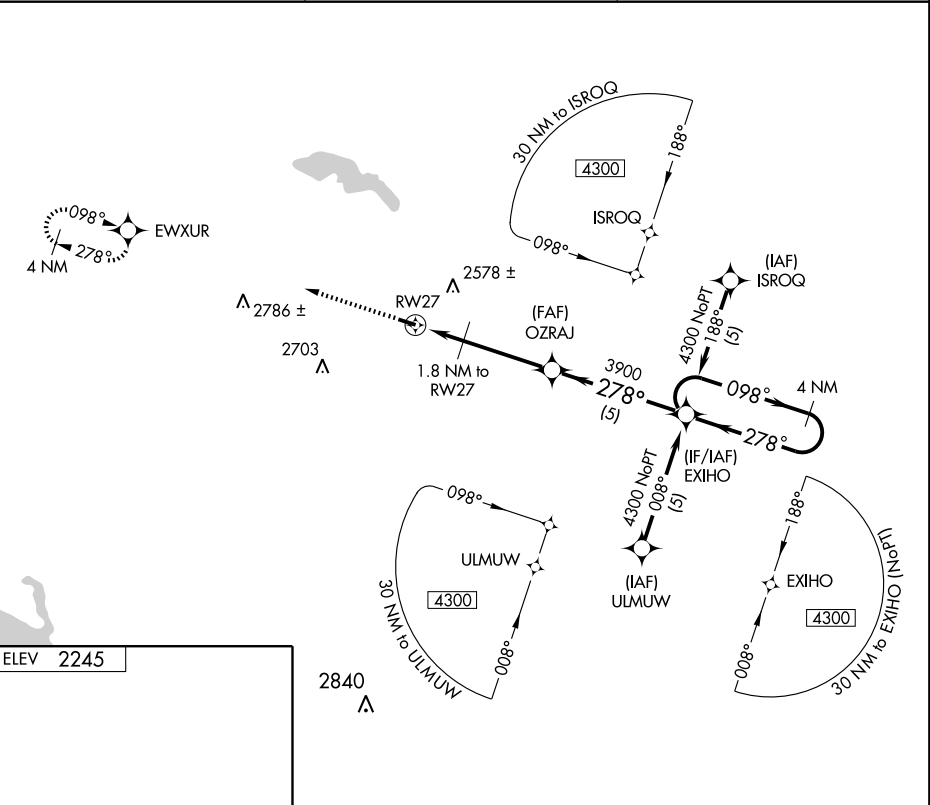


APP CRS	Rwy Idg	3900
278°	TDZE	2244
	Apt Elev	2245

RNAV (GPS) RWY 27
STANLEY MUNI (Ø8D)

▲ NA	Use Minot altimeter setting. GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climb to 5000 direct EWXUR WP and hold.
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AWOS-3 121.1	MINNEAPOLIS CENTER 127.6 279.6	CTAF 122.9 0
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5000	EWXUR	EXIHO	4 NM Holding Pattern
1.8 NM to RWY 27	1.8 NM to RWY 27	3.00° TCH 40	098° 278° 4300
2800	3900		VGSI and descent angles not coincident
1.8	3.3 NM	5 NM	
CATEGORY	A	B	C D
LNAV MDA	2740-1	496 (500-1)	NA
CIRCLING	2880-1	635 (700-1)	NA

APP CRS	Rwy Idg	5102
303°	TDZE	2271
	Apt Elev	2271

RNAV (GPS) RWY 30

TIOGA MUNI (D60)

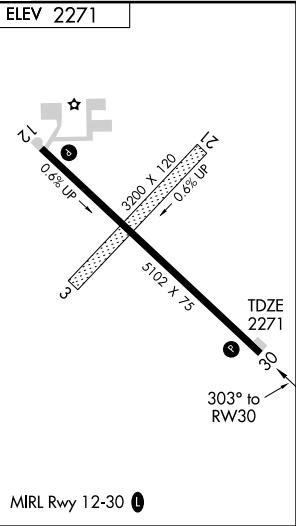
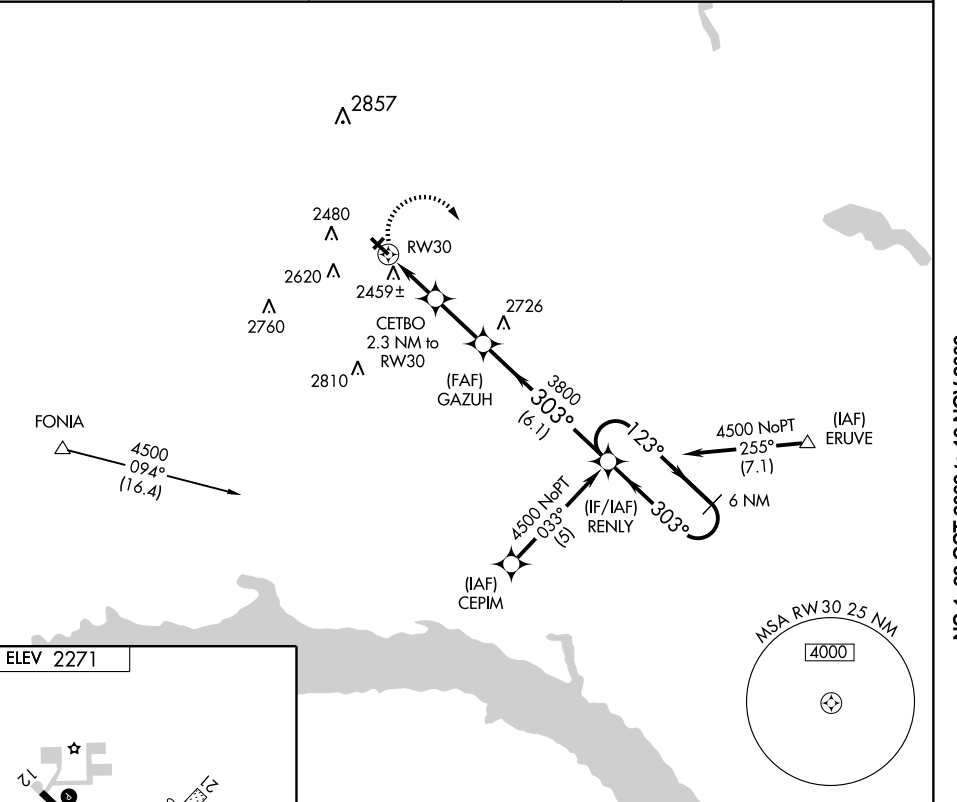
▼

▲ NA

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Williston altimeter setting and increase all MDA 120 feet and increase LNAV Cat C and D visibility ½ mile; Circling Cat C and D visibility ½ mile.

MISSED APPROACH:
Climbing right turn to 4500
direct RENLY and hold.

AWOS-3 118.575	MINNEAPOLIS CENTER 127.6 279.6	CTAF 122.9
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CATEGORY	A		B		C	D
	2720-1		449 (500-1)		2720-1¼ 449 (500-1¼)	2720-1½ 449 (500-1½)
CIRCLING	2760-1		2840-1		2840-1½	2980-2¼
	489 (500-1)		569 (600-1)		569 (600-1½)	709 (800-2¼)

NDB VCY	APP CRS	Rwy Idg	4202
<u>382</u>	306°	TDZE	1393
		Apt Elev	1400

NDB or GPS RWY 31

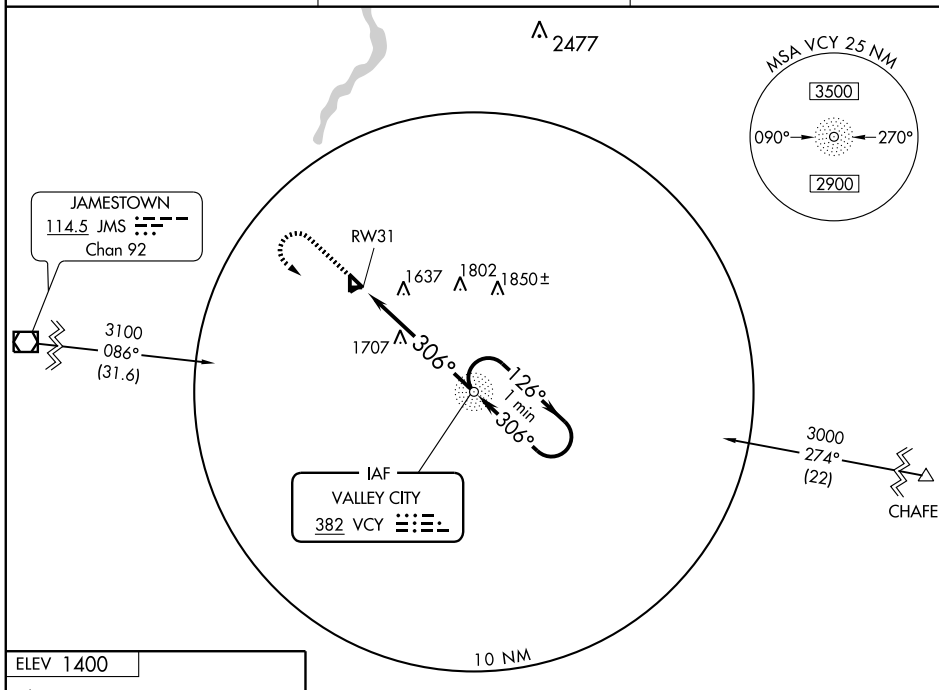
VALLEY CITY/BARNES COUNTY MUNI (6D8)

A NA Obtain local altimeter setting on CTAF; when not received use Jamestown altimeter setting.

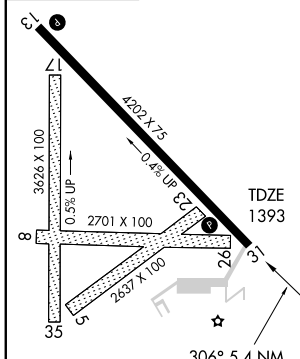
MISSED APPROACH: Climb to 2500 then climbing left turn to 3000 direct VCY NDB and hold.

AWOS-3
118.225

MINNEAPOLIS CENTER
124.2 270.3

UNICOM
122.8 (CTAF) **L**

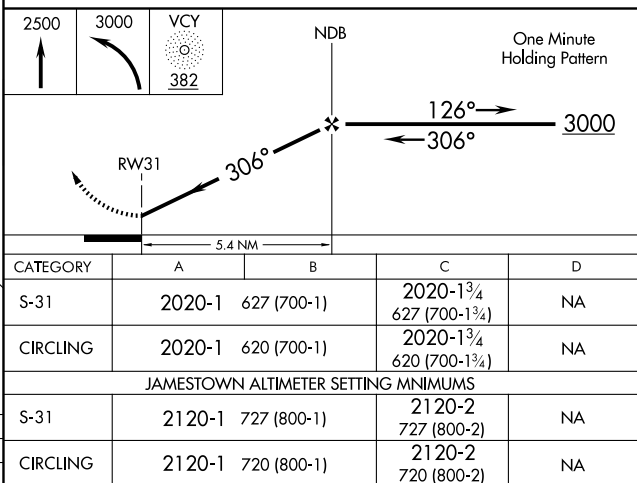
ELEV 1400



MIRL Rwy 13-31 **L**
REIL Rwy 13 and 31 **L**

FAF to MAP 5.4 NM

Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48



NDB BWP
233APP CRS
342°Rwy Idg **5100**
TDZE **967**
Apt Elev **968****NDB RWY 33**

WAHPETON/HARRY STERN (BWP)

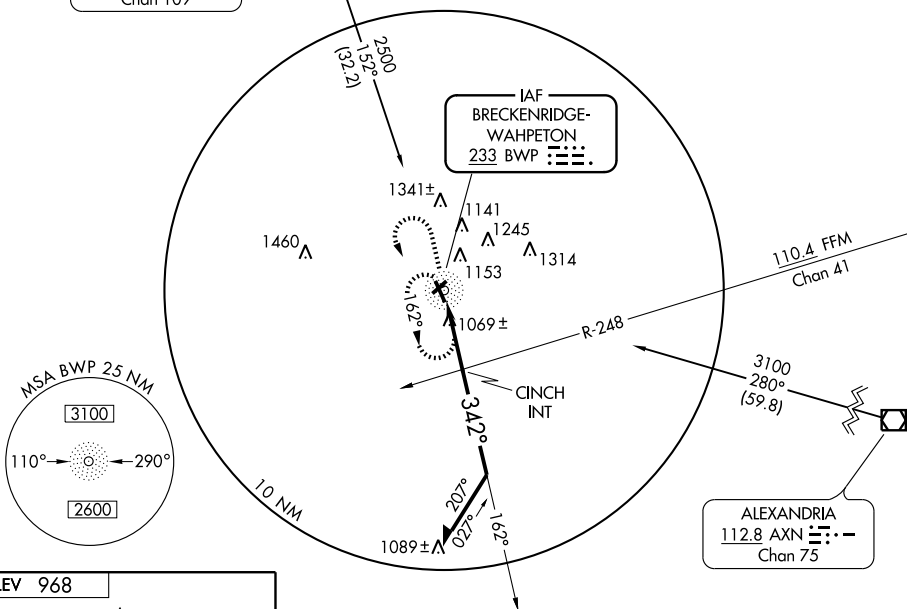
▽ If local altimeter setting not received, use Fergus Falls,
△ NA MN altimeter setting and increase all MDAs 80 feet.

MISSED APPROACH: Climb to 2500 then left turn direct
 BWP NDB and hold.

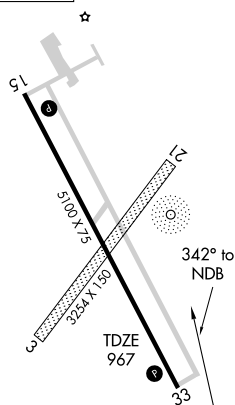
AWOS-3
127.875GRAND FORKS RADIO
122.425UNICOM
123.0 (CTAF)

FARGO
 116.2 FAR
 Chan 109

1567



ELEV 968



2500

BWP

233

NDB

Remain
within 10 NM

162°

CINCH INT

342°

2500

*1520 when using
 Fergus Falls altimeter setting.

2.5 NM

CATEGORY	A	B	C	D
S-33	1440-1	473 (500-1)	1440-1¼ 473 (500-1¼)	1440-1½ 473 (500-1½)
CIRCLING	1520-1	552 (600-1)	1520-1½ 552 (600-1½)	1560-2 592 (600-2)

CINCH FIX MINIMUMS

S-33	1380-1	413 (500-1)	1380-1¼	413 (500-1¼)
CIRCLING	1520-1	552 (600-1)	1520-1½ 552 (600-1½)	1560-2 592 (600-2)

REIL Rwy 15 and 33

MIRL Rwy 15-33

APP CRS	Rwy Idg	5100
151°	TDZE	968
	Apt Elev	968

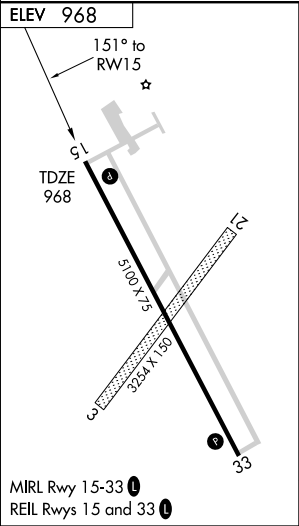
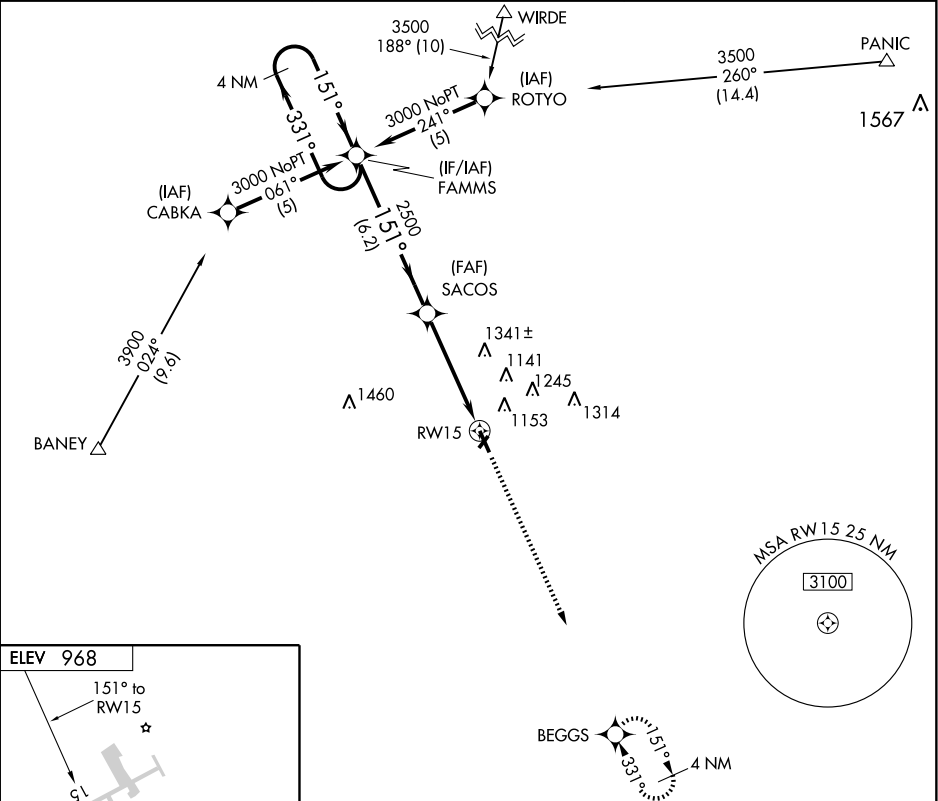
RNAV (GPS) RWY 15

WAHPETON/HARRY STERN (BWP)

NA DME/DME RNP-0.3 NA. Circling to Rwy 3/21 NA at night.
If local altimeter setting not received, use Fergus Falls, MN altimeter setting and increase all MDAs 80 feet.
VDP NA when using Fergus Falls, MN altimeter setting.

MISSED APPROACH: Climb to 3000 direct BEGGS and hold.

AWOS-3 127.875	GRAND FORKS RADIO 122.425	UNICOM 123.0 (CTAF) 1
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4 NM Holding Pattern		FAMMS	SACOS	3000	BEGGS
3000		331°	151°	1.6 NM to RW15	
VGSI and descent angles not coincident.		2500	3.04° TCH 55		
		6.2 NM	3 NM	1.6 NM	
CATEGORY	A	B	C	D	
LNAV MDA	1500-1	532 (600-1)	1500-1½ 532 (600-1½)	1500-1¾ 532 (600-1¾)	
CIRCLING	1520-1	552 (600-1)	1520-1½ 552 (600-1½)	1560-2 592 (600-2)	

APP CRS	Rwy Idg	5100
331°	TDZE	967
	Apt Elev	968

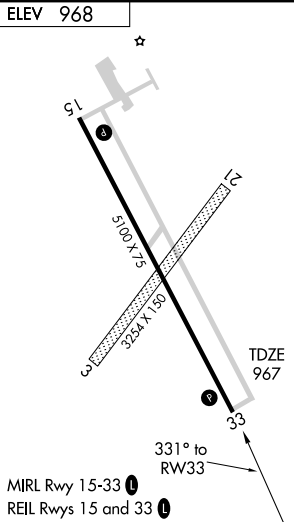
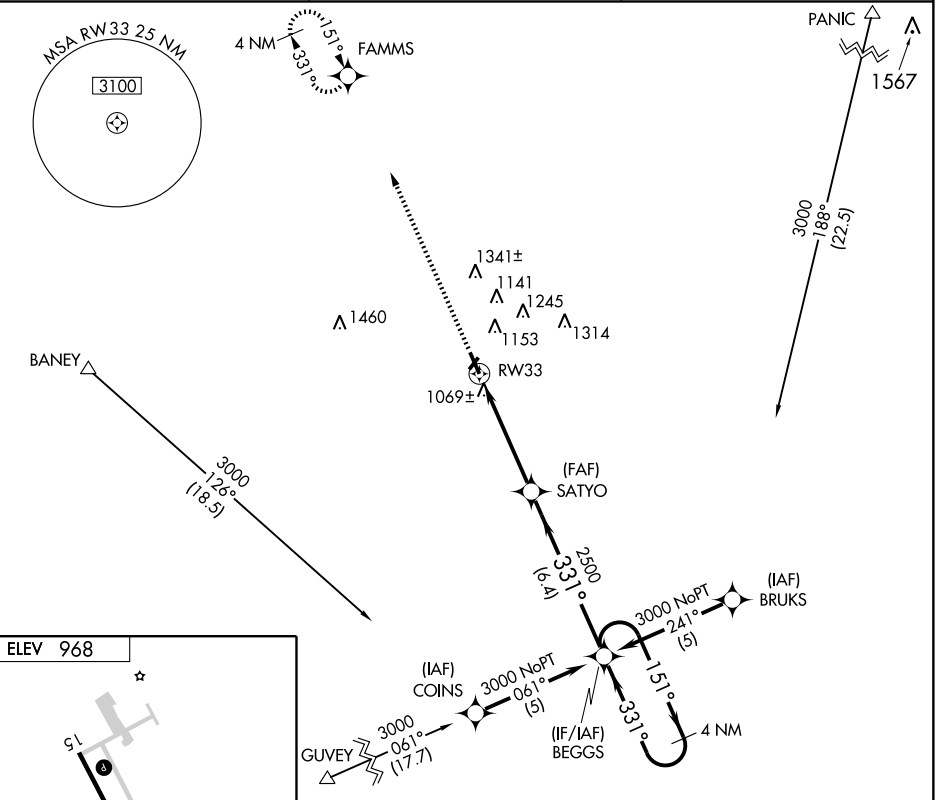
RNAV (GPS) RWY 33

WAHPETON/HARRY STERN (BWP)

NA DME/DME RNP-0.3 NA.
If local altimeter setting not received , use Fergus Falls, MN altimeter setting and increase all MDAs 80 feet.
VDP NA when using Fergus Falls, MN altimeter setting.

MISSED APPROACH: Climb to 3000 direct FAMMS and hold.

AWOS-3 127.875	GRAND FORKS RADIO 122.425	UNICOM 123.0 (CTAF) 0
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3000	FAMMS	SATYO	BEGGS	4 NM Holding Pattern
1 NM to RW33	3.04° TCH 55	331°	151°	3000
1 NM	3.6 NM	6.4 NM		
CATEGORY	A	B	C	D
LNAV MDA	1320-1	353 (400-1)		1320-1¼ 353 (400-1¼)
CIRCLING	1520-1	552 (600-1)	1520-1½ 552 (600-1½)	1560-2 592 (600-2)

APP CRS	Rwy Idg	3400
345°	TDZE	953
	Apt Elev	953

RNAV (GPS) RWY 33

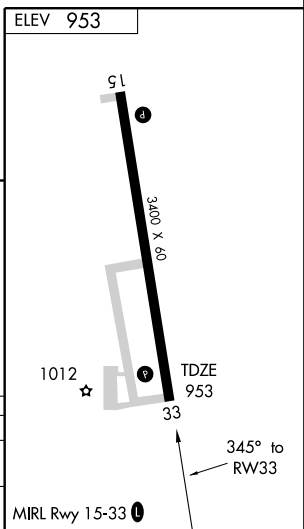
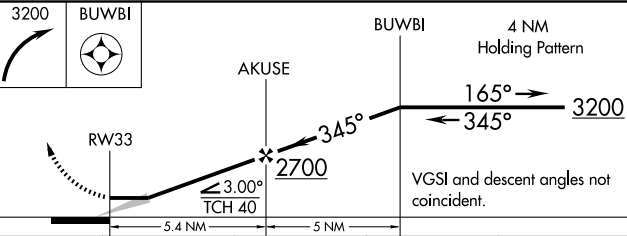
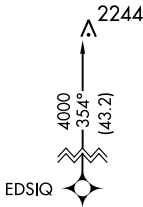
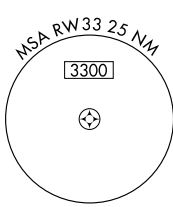
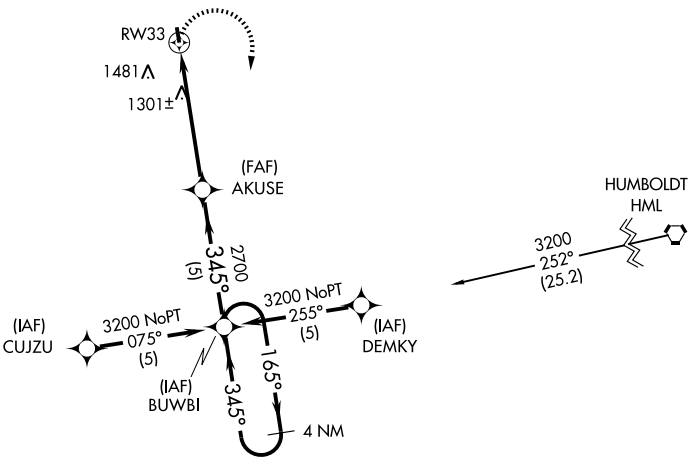
WALHALLA MUNI (96D)

NA Use Hallock Muni altimeter setting.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing right turn to 3200 direct BUWBI WP and hold.

MINNEAPOLIS CENTER
132.15 269.6

CTAF
122.9



CATEGORY	A	B	C	D
LNAV MDA	1680-1	727 (800-1)	NA	NA
CIRCLING	1680-1	727 (800-1)	NA	NA

MIRL Rwy 15-33

APP CRS	Rwy Idg	4401
290°	TDZE	2108
	Apt Elev	2109

GPS RWY 30

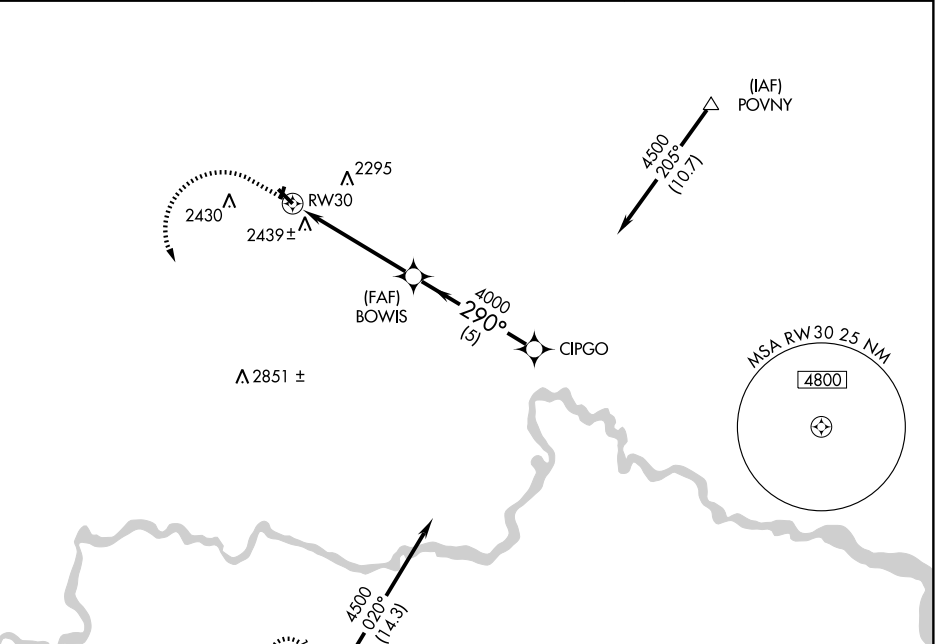
WATFORD CITY MUNI (S25)

NA

Use Williston altimeter setting.

MISSED APPROACH: Climb to 3000 then climbing left turn to 4500 direct HASOS WP and hold.

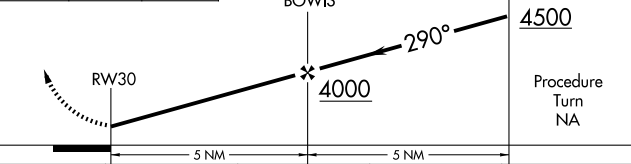
AWOS-3 118.125	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF)
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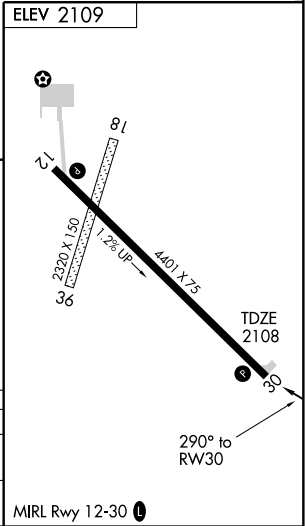
3000

4500

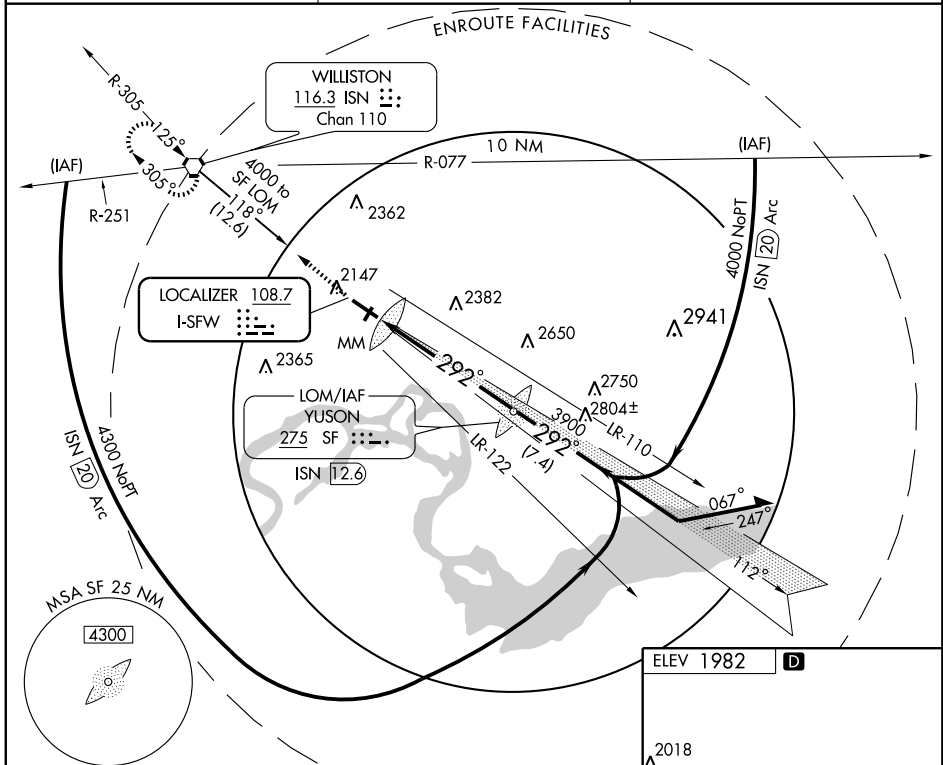
HASOS



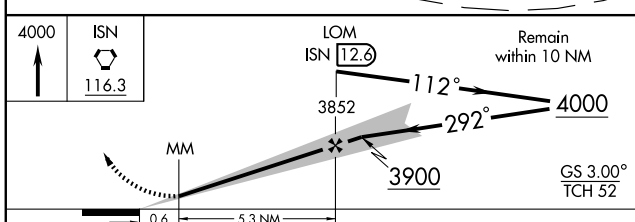
CATEGORY	A	B	C	D
S-30	2780-1	672 (700-1)	NA	
CIRCLING	2840-1	731 (800-1)	NA	



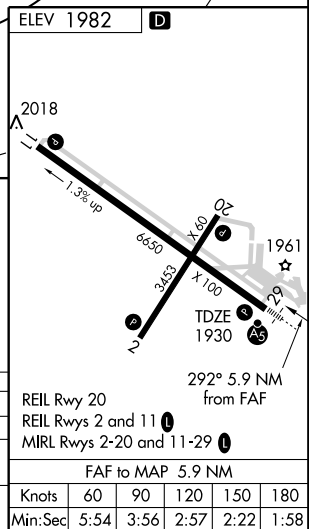
ASOS 125.92	SALT LAKE CITY CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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DME or ADF REQUIRED






CATEGORY	A	B	C	D
S-ILS 29	2130-½ 200 (200-½)			
S-LOC 29	2420-½ 490 (500-½)	2420-¾ 490 (500-¾)	2420-1 490 (500-1)	
CIRCLING	2500-1 518 (600-1)	2500-1½ 518 (600-1½)	2560-2 578 (600-2)	

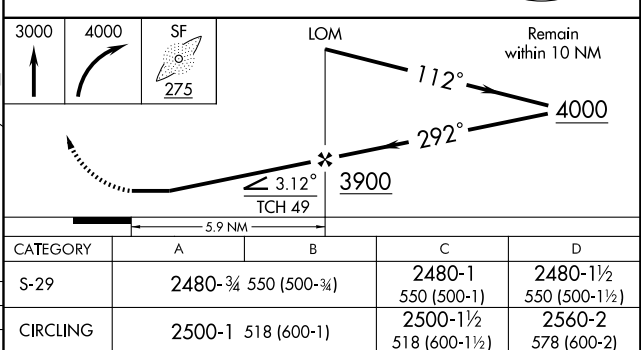
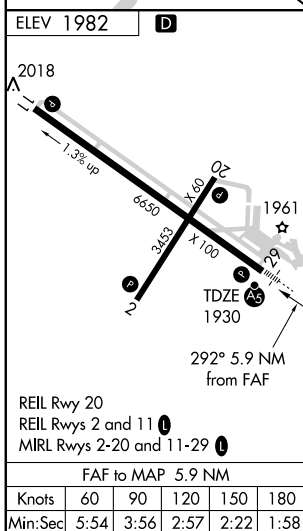
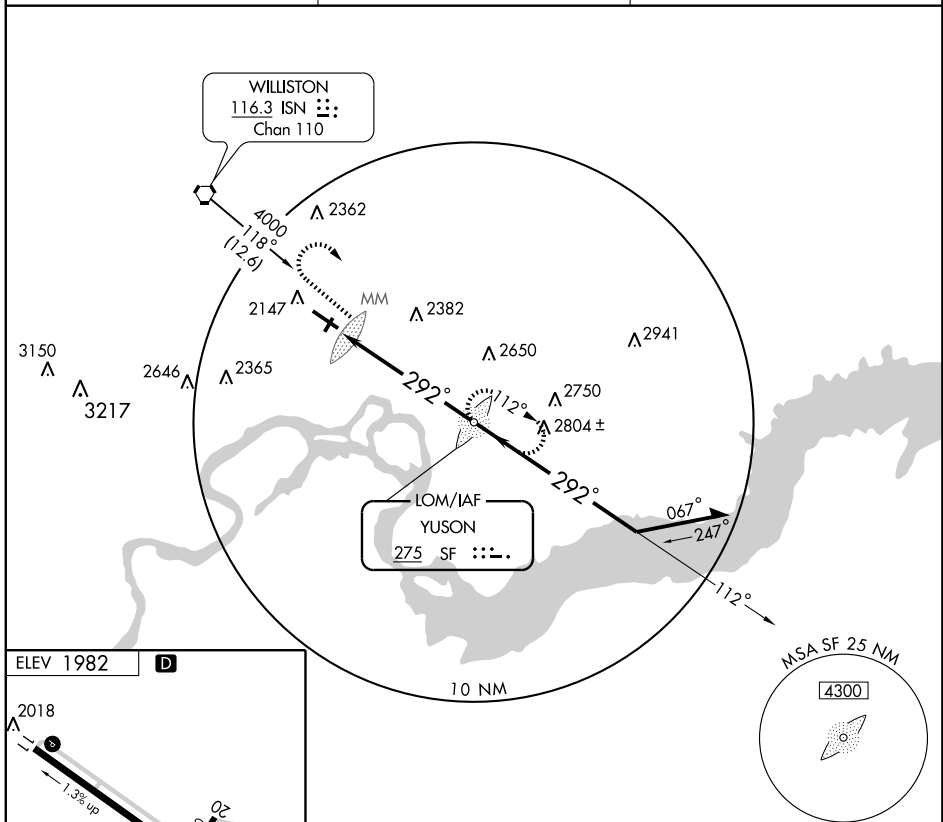


LOM SF <u>275</u>	APP CRS 292°	Rwy Idg TDZE Apt Elev	6650 1930 1982
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NDB RWY 29

WILLISTON/ SLOULIN FIELD INTL (ISN)

 NA	MALSR 	MISSED APPROACH: Climb to 3000 then climbing right turn to 4000 direct SF LOM and hold.
ASOS 125.92	SALT LAKE CITY CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 



VORTAC ISN <u>116.3</u> Chan 110	APP CRS 303°	Rwy Idg 6650 TDZE 1930 Apt Elev 1982
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VOR/DME or GPS RWY 29
WILLISTON/SLOULIN FIELD INTL (ISN)

WILLISTON/SLOULIN FIELD INTL (ISN)

T Inoperative components table does not apply.

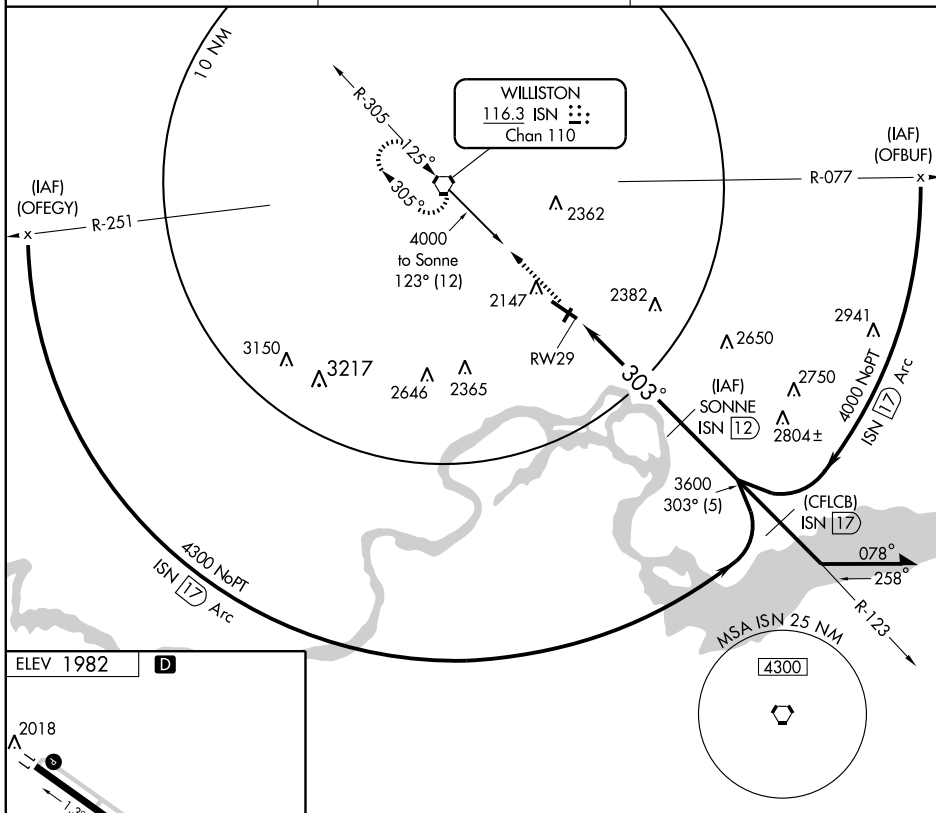


MISSED APPROACH: Climb to 4000 direct ISN VORTAC and hold.

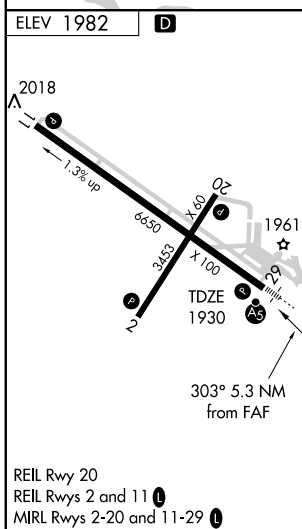
ASOS
125.92

SALT LAKE CITY CENTER
126.85 305.2

UNICOM
122.8 (CTAF) **L**



NC-1. 22 OCT 2009 to 19 NOV 2009



CATEGORY	A	B	C	D
S-29	2420-1 490 (500-1)		2420-1¼ 490 (500-1¼)	2420-1½ 490 (500-1½)
CIRCLING	2500-1 518 (600-1)		2500-1½ 518 (600-1½)	2560-2 578 (600-2)

